



SEQUENCE LISTING

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<120> Nucleotide and Deduced Amino Acid Sequences of the Envelope 1 and Core Genes of Isolates of Hepatitis C Virus and the use of Reagents Derived From These Sequences in Diagnostic Methods and Vaccines

<130> 20264116US2

<140> 09/084,691

<141> 1998-05-26

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<150> 08/086,428

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<160> 274

<170> PatentIn Ver. 2.1

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<211> 576

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<213> Homo sapiens

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<223> Individual Isolate: DK7

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gagggtaaca cctcgaggtg ttgggtggcg gtgaccccca cggtgccac cagggacggc 180  
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<223> Individual Isolate: S18

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gagggtaacg cctcgagatg ttgggtgccc gtggccac cagggacggc 180  
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catataacgg gtcaccgtat ggcatggat atgatgatga actggtcccc tacaacggcg 420  
ttggtaatag ctcagctgct cagggtcccc caagccgtct tggacatgat cgctggtgcc 480  
cactggggag tcctagcggg catagcgtat ttctccatgg tggggaaactg ggcgaaggtc 540  
ctgctagtgc tgttgctgtt tgccggcggtc gatgcg 576

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<213> Homo sapiens

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<223> Individual Isolate: SW1

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tgctcgcccc tctacgtggg ggacttgtgc gggctgtct ttctcgatcg tcaactgttc 300  
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<212> DNA  
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<223> Individual Isolate: D1

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<212> DNA  
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<223> Individual Isolate: D3

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gaggacaact cctctcgctg ctgggtagcg ctcaccccca cgctcgccggc taggaatggc 180  
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<220>

<223> Individual Isolate: DK1

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<223> Individual Isolate: HK4

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<212> DNA  
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<220>

<223> Individual Isolate: P10

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<213> Homo sapiens

<220>

<223> Individual Isolate: S9

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cactggggag tcctggcggg ccttgcctac tattccatgg tggggaaactg ggctaagggtt 540  
ctgattgtga tgctactctt tgccggcggtt gacggg 576

<210> 21  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: SA10

<400> 21  
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gagaacaact cctcccgctg ctgggtagcg ctcactccca cgctcgccgc caggaactcc 180  
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cgcgtaacag gtcacccgcat ggcttgggat atgatgatga actggtcacc tacaacagct 420  
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cactggggag tccttagcggg ccttgcctac tattccatgg tggggaaactg ggctaagggtt 540  
ttgattgtta tgctactctt tgccggcggtt gacggg 576

<210> 22  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: SW2

<400> 22  
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gaggccaact cctcccgctg ctgggtagcg ctcactccca cgctagcagc caggaacacc 180  
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cacgtatcg gtcacccgcat ggcttgggac atgatgatga actggtcacc tacagcagcc 420

ctgggtgtat cgcaagtact ccggatccca caagctgtcg tggacatggt agcgggggcc 480  
cactggggag tcctggcggg cttgcatac tattccatgg tggggactg ggctaagggtt 540  
ttgattgtga tgctactctt tgctggcggtt gacggg 576

<210> 23  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: T3

<400> 23  
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gagagcaatt cctcccgctg ctgggttagcg cttactccca cgctcgccgc caggaacgcc 180  
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ctagtgggtgt cgcagttgtc ccggatccca caagctgtcg tggacatggt ggcgggggcc 480  
cactggggag tcctggcggg cttgcctac tattccatgg tggggactg ggctaagggtt 540  
ttgattgtgc tgctactctt tgccggcggtt gatggg 576

<210> 24  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: T10

<400> 24  
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gagggcaact cctcccgctg ctgggttagcg ctcactccca cgctcgccgc caggaacacc 180  
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ctagtgggtgt cgcagttact ccggatccca caagctgtca tggacatggt gacaggggcc 480  
cactggggag tcctggcggg cttgcctac tattccatgg cggggactg ggctaagggtt 540  
ttaattgtga tgctactctt tgccggcggtt gatggg 576

<210> 25

<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: US6

<400> 25  
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gagaacaatt cctcccgctg ctgggtagcg ctcactccca cgctcgccggc caggaacgct 180  
agcgtccccca ctacgacaat acgacgcccac gtcgattgc tcgttggggc ggctactttc 240  
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cacgtatcag gtcaccgcattt ggcttgggat atgatgatga attggtcacc tacagcagcc 420  
ctagtggat cgcagttact ccggatccca caagctgtca tggacatggg ggcggggcc 480  
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ctgattgtgt tgctactctt tgccggcgtt gacggg 576

<210> 26  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: T2

<400> 26  
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ctggaaata catcccgatg ctggataccg gtcacaccaa acgtggccgt gccgcagccc 180  
ggcgctctta cgcaggcgtt gccggacgcac atcgacatgg ttgtgatgtc cgcacgctc 240  
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accatcaactg gacaccgtat ggcacatgggac atgatgatga actggtcgcc cacagccacc 420  
atgatcctgg cgtacgcgtat ggcgcgttccc gaggtcatca tagacatcat cggcggtt 480  
cactggggcg tcatgtttgg cttggcctac ttctctatgc agggagcgtg ggcgaagggtc 540  
attgtcatcc tcttgctggc tgctgggggtg gacgcg 576

<210> 27  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: T4

<400> 27  
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acgggaaata catctcggtg ctggataccg gttcaccaa acgtggccgt gcggcagccc 180  
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atgatcctgg cgtacgcgtat ggcgttccc gaggtcatct tagacatctg tagcggggca 480  
cactggggcg tcatgttcgg ctggcctac ttctctatgc agggagcgtg ggcgaaagtc 540  
gttgtcatcc ttctgctggc cgctgggtg gacgacg 576

<210> 28  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: T9

<400> 28  
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gttggaaacgcgtc cgcggcgtt ctggataccg gtctcgccaa acgttagctgt gcagcggcct 180  
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tgctccgctc ttacgtggg ggatctctgc ggccgggtaa tgctcgccgc tcagatgttc 300  
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accatcaactg gacaccgtat ggcacatggat atgatgatga actggcgcc cacaaccacc 420  
atgatcctgg cgtacgcgtat ggcgttccc gaggtcatca tagacatcat cagcggagct 480  
cactggggcg tcatgttcgg ctggcctac ttctctatgc agggagcgtg ggcgaaaggc 540  
gttgtcatcc ttctgctggc cgctgggtg gacgacg 576

<210> 29  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: US10

<400> 29  
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atcacccggc aacttggggc tgcggcctc cacgtccccg ggtgtgtccc gtgcgagaaa 120  
gttggaaata catctcggtg ctggataccg gtctcgccaa atgtggccgt gcagcggcct 180  
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accatcaccc ggcaccgtat ggcatggac atgatgatga actggcgcc cacggccact 420  
ttgatcctgg cgtacgtat ggcgttccc gaggtcatca tagacatcat tagcggggcg 480  
cattggggcg tcttggcgg cttagcctac ttctctatgc agggagcgtg ggcgaaagtc 540  
gttgcatacc ttctgctagc cgctggggtg gacgacg 576

<210> 30  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: DK8

<400> 30  
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gacaatggca ccctgcgtg ctggatacaa gtgacaccta atgtggctgt gaaacaccgc 180  
ggcgactta ctcataaccc gcaacacac gtcgacgtga tcgtaatggc agctacggc 240  
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catatcaccc gcccaccat ggcatggac atgatgctaa actggtcacc aactcttacc 420  
atgatcctcg cctatgcgc tcgtgttcct gagctagccc tccagggtgt ctgcggcggc 480  
cattggggcg tgggtttgg ctggcctat ttctccatgc agggagcgtg ggcgaaagtc 540  
attgcatacc tccttcttgt cgcaaggatg gatgc 576

<210> 31  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: DK11

<400> 31  
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gacaatggca ccctgcactg ctggatacaa gtgacaccta atgtggctgt gaaacaccgc 180  
ggcgactca ctcacaaccc gcaacacat atgatatgc ttgtaatggc agctacggc 240  
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catatcaccc gcccaccat ggcatggac atgatgctta actggtcacc aactcttacc 420  
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cattggggcg tgggtttgg ctggcctat ttctccatgc agggagcgtg ggcgaaagtc 540  
attgcatacc tccttcttgt agcaggatg gatgc 576

<210> 32  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: SW3

<400> 32  
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gataatggca ccctgcactg ctggatacaa gtgacaccta atgtggctgt gaaacaccgc 180  
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ataatatcgc cagaacgcca caactttacc caagagtgc actgttccat ctaccaaggt 360  
cgatcaccg gccaccgcat ggcgtggac atgatgctaa actggtcacc aactcttacc 420  
atgatccttg cctatgccgc tcgtgtccct gagctagtcc ttgaagttgt cttcggcggc 480  
cattggggcg tggtgtttgg cttggcctat ttctccatgc aaggagcgtg ggccaaggtc 540  
atgccatcc tcctgcttgt cgcaaggatg gatgca 576

<210> 33  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: T8

<400> 33  
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gacaatggca ccttgcgctg ctggatacaa gtaacaccta atgtggctgt gaaacaccgt 180  
ggcgcactca ctcacaacct gcgaacgcatt gtcgacgtga tcgtaatggc agctacggtc 240  
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atgatcctcg cctacgctgc tcgtgtgcct gaactagtcc ttgaagttgt cttcggcggc 480  
cattggggcg tggtgtttgg cttggcctat ttctccatgc aaggagcgtg ggccaaggtc 540  
atgccatcc tcctccttgt cgcaaggatg gacgca 576

<210> 34  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>

<223> Individual Isolate: S83

<400> 34

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tgttctgccc ttatgtggg ggacgtgtt ggccgcgtga tgctggccgc tcaggtcg 300  
gtcgtgtcgc cacaacacca tacgttgtc caggaatgca actgttccat ataccggc 360  
cgccattacgg gacaccgcat ggcttggat atgatgatga actggtcgc cactaccacc 420  
atgctcctgg cgtacttggt ggcgcattccg gaagtcatct tggatattgt tacaggaggt 480  
cattgggggtg taatgtttgg cctcgcttac ttctccatgc agggatcg 540  
atcgttatcc tcctgctgac tgctgggggtg gaggcg 576

<210> 35

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: DK12

<400> 35

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gacggcaata catctacgtc ctggacccca gtgacgccta cagtggcagt caggtacgtc 180  
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atggtggtag cgcacgtcct gcgtctgccc cagacctgtc tcgacataat agctggggcc 480  
cattggggca tcatggcggg cctagcctat tactccatgc agggcaactg gccaaggc 540  
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<210> 36

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: HK10

<400> 36

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attgtgtatg aggccgatga cgtcattctg cacacacctg gctgtgtacc ttgtgttcag 120  
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ggagcaacca ccgcctcgat acgcagtcat gtggacctgt tagtgggcgc ggccacgtg 240  
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atggtgtgtgg cgacgtcct gcgggtgcc cagacctgt tcgacataat agccggggcc 480  
cattggggca tcttggcagg cctagcctat tactccatgc aaggcaactg ggccaaggc 540  
gctatcatca tggtatgtt ttcaggggtc gatgcc 576

<210> 37  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: S2

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gacggtaata catccacgtg ctggacccca gtgacaccta cagtggcagt caggtatgtc 180  
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atggtgtgtgg cgacgttct gcgtttgcc cagaccgtgt tcgacataat agccggggcc 480  
cattggggca tcttggcggg cctagcctat tactccatgc aaggcaactg ggccaaggc 540  
gctatcatca tggtatgtt ttcaggggtc gacccc 576

<210> 38  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: S52

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acgttcagac ctcgtcgcca tcaaacggtc cagacctgta actgctcgct gtacccaggc 360  
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atggtgtgg cgcacatcct gcgattgcc cagaccttgt ttgacatact ggccggggcc 480  
cattggggca tcttggcggg cctagcctat tattctatgc agggcaactg ggccaaggtc 540  
gctattgtca tgattatgtt ttcaggggtc gatgcc 576

<210> 39  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: S54

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gacggcaata catccacgtg ctggacccca gtgacaccta cggtggcagt caggtacgtc 180  
ggagcaacca ccgcttcgtat acgcagtcat gtggacctat tagtggcgc ggccacgctg 240  
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acgttcagac ctcgtcgcca tcaaacggtc cagacctgtt actgctcgct gtacccaggc 360  
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atggtgtgg cgcacatcct gcgattgcc cagaccttgt ttgacatact ggccggggcc 480  
cattggggca tcttggcggg cctagcctat tattctatgc agggcaactg ggccaaggtc 540  
gctatcatca tgattatgtt ttcaggggtc gatgcc 576

<210> 40  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: Z4

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acttttcggc cgcgtcgcca ctggaccacg caggagtgcattt attgttccat ctacactggc 360  
catatcacccg gccacaggat ggcgtgggac atgatgtga actggagccc taccaccact 420  
ctgctcttcg cccagatcat gagggtcccc acagccttc tcgacatgg tggcgaggc 480  
cactggggcg tcctcgccggg cttggcgtac ttcagcatgc aaggcaattg ggccaaggta 540  
gtccctggtcc ttttcctt tgctgggtt gacccc 576

<210> 41

<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: Z1

<400> 41  
gtgcactacc ggaatgcttc gggcgtctat catgtcacca atgattgccccc taacaccaggc 60  
atagtgtacg agacggagca ccacatcatg cacttgccag ggtgtgtccc ctgtgtgcgg 120  
acggagaata cttctcgctg ctgggtgccc ttgaccccca ctgtggccgc gccctatccc 180  
aacgcaccgt tagagtcatt ggcgcaggcat gtagacactga tgggggtgc ggctactatg 240  
tggccgcct tctacattgg agatctgtgt ggaggcgtct tcctagtggtt ccagctgttc 300  
gacttccgac cgccggca ctggaccacc caggattgca actgctccat ctatcctgg 360  
cacgtctcggtt ggcacaggat ggcctggac atgatgtga actggagcc taccagcg 420  
ctgattatgg ctcagatctt acggatcccc tctatcctag gtgacttgctt caccgggggt 480  
cactggggag ttcttgctgg tctagcttc ttcaagcatgc agagtaactg ggcaagggtc 540  
atcctggtcc tattcctctt tgccggggtc gagggaa 576

<210> 42  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: Z6

<400> 42  
gttaactatc gcaatgcctc gggcgtctat cacgtcacca acgactgccc gaactcgagc 60  
atagtgtatg aggccaaaca ccagatctta cacctccag ggtgcttgcc ctgtgtgagg 120  
gttggaaatc agtcacgctg ctgggtggcc cttactccca ccgtggcggt gtcttataatc 180  
ggtgctccgc ttgactccct ccggagacat gtggacactga tgggggcgc cgctactgt 240  
tgctctgccc tctacgttgg agatctgtgc ggtgggtcat tcttgggttgg ccagatgttc 300  
tccttccagc cgccacgcca ctggactacg caggactgca attgttctat ctacgcagg 360  
catatcacgg gccacaggat ggcatggac atgatgtga actggagtcc cacaaccacc 420  
ctgcttctcg cccaggtcat gaggatccct agcactctgg tagatctact cgctggagg 480  
cactggggcg tccttgggttgg gttggcgtac ttcaagcatgc aagctaattg ggc当地agtc 540  
atcctggtcc ttttccctttt cgctggaggat gatgcc 576

<210> 43  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: Z7

<400> 43  
gtcaactatc acaatgcctc gggcgtctat cacatcacca acgactgccc gaactcgagc 60  
ataatgtatg aggccgaaca ccacatccta cacctccag ggtgcgtacc ctgtgtgagg 120  
gaggggaacc agtcacgctg ctgggtggcc cttactccca ccgtggcggc gccttatatc 180  
ggtgcaccgc ttgaatccat ccggagacat gtggacctga tggtaggcgc tgctacagtg 240  
tgctccgctc tctacattgg ggacctgtgc ggtggctat ttttggttgg tcagatgttt 300  
tcttccagc cgcgacgcca ctggactacg caggactgca attgttccat ctatgcgggg 360  
cacgttacag gccacagaat ggcatggac atgatgatga actggagttcc cacaaccacc 420  
ttggtcctcg cccaggttat gaggatccct agcactctgg tggacctact cactggaggg 480  
cactgggta tccttatcgg ggtgcatac ttctgcatac aagctaattt ggccaaggtc 540  
attctggtcc ttttcctcta cgctggagtt gatgcc 576

<210> 44  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: DK13

<400> 44  
tacaactatc gcaacagctc gggtgtctac catgtcacca acgattgccc gaactcgagc 60  
atagtctatg aaaccgatta ccacatcta caccccccgg gatgcgttcc ttgcgtgagg 120  
gaagggaaaca agtctacatg ctgggtgtct ctcaccccca ccgtggctgc gcaacatctg 180  
aatgctccgc ttgagtcctt gagacgtcac gtggatctga tggtaggcgg cgccactctc 240  
tgctccgccc tctacatcgg agacgtgtt ggggggtgt tcttggtcgg tcaactgttc 300  
accttccaac ctcgcccaca ctggaccacc caagactgca attgttccat ctacacagga 360  
catatcacag gacacagaat ggcattggac atgatgatga attggagccc cactgcgacg 420  
ctggtcctcg cccaaacttat gaggatccca ggcccatgg tcgacctgct tgcaggcggc 480  
cactgggca ttctggttgg catagcgtac ttctgcatac aagctaattt ggccaaggtt 540  
atcctggtcc tgttctctt tgctggagtc gacgt 576

<210> 45  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: SA1

<400> 45  
gtcccttacc ggaatgcctc tgggtttac catgtcacca atgactgccc aaactcctcc 60  
atagtctacg aggctgatag cctgatctt cacgcacccgt gctgcgtgcc ctgtgtcagg 120  
caagataatg tcaatggatgtt ctgggtccaa atcaccccca cactgtcagc cccgaccttc 180  
ggagcggta cggctcttct tcggaggggcc gttgactact tagcgggagg agctgcttc 240

tgctccgcac tatacgtcgg cgacgcgtgc gggcagtgt ttctggtagg ccaaatgttc 300  
acctataggc ctcgcagca taccacagtg caggactgca actgttccat ttacagtggc 360  
catatcacccg gccaccggat ggcttggac atgatgatga attggtcacc tacgacagcc 420  
ttgctgatgg cccagatgct acggatcccc caggtggtca tagacatcat agccggggc 480  
cactgggggg tcttgttgc cgccgcatac tttgcgtcgg ccgccaactg ggctaaggta 540  
tgctggttc tgccctgtt tgccggggc gatggc 576

<210> 46  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: SA4

<400> 46  
gtccctacc gaaacgcctc tgggttat catgtcacca atgattgccaaactttcc 60  
atagtttacg aggctgataa cctgatcttgcatgcacccgttgcgtcc ttgtgtcagg 120  
caagataatg tcagtaagtgc tgggtccaa atcaccggccgttgcagcccaatctc 180  
ggagcggta cggctccctctc tggggggcc gttgactact tagcgggagg ggctgcctc 240  
tgctccgcac tatacgtcgg ggacgcgtgc gggcagtgt ttttggtagg ccaaatgttc 300  
acctataggc ctcgcagca cactacggtgcagactgca attgctctat ttacagtggc 360  
catatcacccg gccaccggat ggcattggac atgatgatga attggtcacc tacgacggcc 420  
ttgctgatgg cccagttgtacggattccc caggtggtca tcgacatcat tgccggggc 480  
cactgggggg tcttgttgc cgccgcataat ttcgcgtcag ccgctaactg ggctaaggta 540  
atactggtct tgccctgtt tgccggggc gatgcc 576

<210> 47  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: SA5

<400> 47  
gtccctacc gaaatgcctc tgggttat catgtcacca atgattgccaaactttcc 60  
atagtctacg aggctgataa cctgattctgcacgcacccgttgcgtcc ctgtgtcaag 120  
gaaggtaatg tcagtaggtgc tgggtccaa atcaccggccattgtcagcccaacctc 180  
ggagcggta cggctccctctc tggggggcc gttgactact tagcgggagg ggctgcctc 240  
tgctccgcac tatacgtcgg ggacgcgtgc gggcagtgt tcttggtagg ccaaatgttc 300  
acctataggc ctcgcagca tactacggtgcagactgca actgttccat ttacagcggc 360  
catatcacccg gccaccgaat ggcattggac atgatgatga attggtcacc tacgacagcc 420  
ttggtgatgg cccaggtgtacggattccc caagtggtca ttgacatcat tgccggggc 480  
cactgggggg tcttgttgc cgccgcataat ttcgcgtcag ccgctaactg ggctaaggta 540  
tgctggttc tgccctgtt tgccggggc gatgcc 576

<210> 48  
<211> 576  
<212> DNA  
<213> Homo sapiens

<400> 48  
gttccttacc ggaatgcctc tgggtgtat catgttacca atgattgccaaactcttcc 60  
atagtctatg aggctgatga cctgatccta cacgacactg gctgcgtgcc ctgtgtccgg 120  
aaggataatg tcagtagatg ctgggttcat atcacccccactatcagc cccgagcctc 180  
ggagcggtca cggctctct tcggagggcc gttgattact tggcgggagg ggccgcctc 240  
tgctccgcgt tatacgtcgg agacgtgtc gggcattgt ttttggtagg ccaaatgttc 300  
acctataaggc ctcgcccagca tgctacggta caggactgca actgctccat ttacagtggc 360  
catatcactg gccaccggat ggcatggac atgatgatga attggtcacc cgacagcc 420  
ttggtgatgg cccaaatgtc acggattccc caggtggtca ttgacatcat tgccggggc 480  
cactgggggg tcttggtcgc cgctgcatac ttgcgtcgg cggctaactg ggctaagggtt 540  
gtgctggtct tgttctgtt tgccgggggtt gatgcc 576

<210> 49  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: SA7

<400> 49  
gtcccccttacc gaaatgcctc cgggtttat catgtcacca atgattgccaaactcttcc 60  
atagtctatg aggctgacaa cctgatcctg cacgacactg gttgcgtgcc ctgtgtcaga 120  
caaataatg tcagtaggtg ctgggtccaa atcacccccactatcagc cccgaacctc 180  
ggagcggtca cggctctct tcggagggcc gttgactacc tagcgggagg ggctgcctc 240  
tgctccgcgc tatacgtcgg ggacgcgtc gggcagtgt ttttggtagg ccagatgttc 300  
actataaggc ctcgcccagca cactacggta caggactgca actgctccat ttacagtggc 360  
catatcacccg gccaccgaat ggcatggac atgatgatga attggtcacc tacgacagcc 420  
ttggtgatgg cccagttgtc acggattccc caggtggtca ttgacatcat tgccggggc 480  
cactgggggg tcttggtcgc cgccgcatac ttgcgtcgg cggctaactg ggctaagggtt 540  
gtgctggtct tgttctgtt tgccgggggtc gatgcc 576

<210> 50  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: SA13

<400> 50  
gttccctacc gaaatgcctc tgggtttat catgtcacca atgattgccca aaactcttcc 60  
atcgctacg aggctgatga cctgatctt cacgcacctg gttgcgtgcc ctgtgttagg 120  
cagggtaatg tcagtaggtg ctgggtccag atcaccctt cactgtcagc cccgagcctc 180  
ggagcggtca cggctcctct tcggagggcc gttgactact tagcgggggg ggctgccctt 240  
tgctccgcgt tatacgctgg agacgcgtgc gggcagtgt ttttggtagg tcaaatgttc 300  
acctatagcc ctcgcggca taatgttgg caggactgca actgttccat ttacagtggc 360  
cacatcacccg gccaccggat ggcatggac atgatgatga attggtcacc tacaacagct 420  
ttggtgatgg cccagttgtt acggattccc caggtggtca ttgacatcat tgccggggcc 480  
cactgggggg tcttggtcgc cgccgcatac tacgcgtcgg cggctaactg ggccaagggtt 540  
tgctggtcc tgttctgtt tgcgggggtc gatgcc 576

<210> 51  
<211> 576  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: HK2

<400> 51  
cttacctacg gcaactccag tggctatac catctcacaa atgattgccca aactccagc 60  
atcgctgg aggcggatgc tatgatctt cattgcctg gatgcttgc ttgtgtgagg 120  
gtcgatgatc ggtccacctg ttggcatgtt gtgaccccca ccctggccat accaaatgct 180  
tccacgcccc caacgggatt ccgcaggcat gtggatctt ttgcggggcc cgcaagtgggtt 240  
tgctcatccc tgtacatcg ggacctgtt ggctctctt ttttgggggg acaactattc 300  
accttcagc cccgcgtca ttggactgtt caagactgca actgctccat ctatacaggc 360  
cacgtcaccc gccacaggat ggcttgggac atgatgatga actggtcacc cacaaccact 420  
ctggctctat ctagcatctt gaggggtaccc gagatttggt caggtgtat atttggtggc 480  
cattggggga tactactagc cgttgcctac tttggcatgg ctggcaactg gctaaaagtt 540  
ctggctgttc tgttcctatt tgcagggggtt gaagca 576

<210> 52  
<211> 192  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: DK7

<400> 52  
Tyr Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys  
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Thr

20

25

30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Val Ser Arg Cys Trp  
 35 40 45

Val Ala Met Thr Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Thr  
 50 55 60

Ala Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu  
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val  
 85 90 95

Gly Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Gly  
 100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala  
 115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ala  
 130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala  
 145 150 155 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn  
 165 170 175

Trp Ala Lys Val Leu Val Val Leu Leu Phe Ala Gly Val Asp Ala  
 180 185 190

&lt;210&gt; 53

&lt;211&gt; 192

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;223&gt; Individual Isolate: DK9

&lt;400&gt; 53

Tyr Gln Val Arg Asn Ser Ser Gly Leu Tyr His Val Thr Asn Asp Cys  
 1 5 10 15

Pro	Asn	Ser	Ser	Ile	Val	Tyr	Glu	Ala	Ala	Asp	Ala	Ile	Leu	His	Ser
20							25							30	
Pro	Gly	Cys	Val	Pro	Cys	Val	Arg	Glu	Gly	Asn	Ala	Ser	Lys	Cys	Trp
35							40							45	
Val	Ala	Val	Ala	Pro	Thr	Val	Ala	Thr	Arg	Asp	Gly	Lys	Leu	Pro	Ala
50							55						60		
Thr	Gln	Leu	Arg	Arg	His	Ile	Asp	Leu	Leu	Val	Gly	Ser	Ala	Thr	Leu
65							70						75		80
Cys	Ser	Ala	Leu	Tyr	Val	Gly	Asp	Leu	Cys	Gly	Ser	Val	Phe	Leu	Val
85							90						95		
Gly	Gln	Leu	Phe	Thr	Phe	Ser	Pro	Arg	Arg	His	Trp	Thr	Thr	Gln	Asp
100							105						110		
Cys	Asn	Cys	Ser	Ile	Tyr	Pro	Gly	His	Ile	Thr	Gly	His	Arg	Met	Ala
115							120						125		
Trp	Asp	Met	Met	Met	Asn	Trp	Ser	Pro	Thr	Ala	Ala	Leu	Val	Met	Ala
130							135						140		
Gln	Leu	Leu	Arg	Ile	Pro	Gln	Ala	Ile	Leu	Asp	Met	Ile	Ala	Gly	Ala
145							150						155		160
His	Trp	Gly	Val	Leu	Ala	Gly	Ile	Ala	Tyr	Phe	Ser	Met	Val	Gly	Asn
165							170						175		
Trp	Ala	Lys	Val	Val	Val	Leu	Leu	Leu	Phe	Thr	Gly	Val	Asp	Ala	
180							185						190		

<210> 54  
 <211> 192  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <223> Individual Isolate: DR1

<400> 54  
 His Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys  
 1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Ala		
20	25	30
Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ala Ser Arg Cys Trp		
35	40	45
Val Ala Val Thr Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Thr		
50	55	60
Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu		
65	70	75
80		
Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val		
85	90	95
Gly Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Asp		
100	105	110
Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala		
115	120	125
Trp Asp Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Met Ala		
130	135	140
Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala		
145	150	155
160		
His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn		
165	170	175
Trp Ala Lys Val Val Val Leu Leu Leu Phe Ala Gly Val Asp Ala		
180	185	190

<210> 55

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DR4

<400> 55

His Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys

1	5	10	15
Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Thr			
20	25	30	
Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Thr Ser Arg Cys Trp			
35	40	45	
Val Ala Val Thr Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Thr			
50	55	60	
Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu			
65	70	75	80
Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val			
85	90	95	
Gly Gln Leu Phe Thr Phe Ser Pro Arg His His Trp Thr Thr Gln Asp			
100	105	110	
Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala			
115	120	125	
Trp Asp Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ala			
130	135	140	
Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala			
145	150	155	160
His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn			
165	170	175	
Trp Ala Lys Val Leu Val Val Leu Leu Leu Phe Ala Gly Val Asp Ala			
180	185	190	

<210> 56  
 <211> 192  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <223> Individual Isolate: S14  
  
 <400> 56

Tyr	Gln	Val	Arg	Asn	Ser	Thr	Gly	Leu	Tyr	His	Val	Thr	Asn	Asp	Cys
1		5				10						15			
Pro	Asn	Ser	Ser	Ile	Val	Tyr	Glu	Thr	Ala	Asp	Ala	Ile	Leu	His	Ala
	20					25						30			
Pro	Gly	Cys	Val	Pro	Cys	Val	Arg	Glu	Gly	Asn	Thr	Ser	Arg	Cys	Trp
	35					40						45			
Val	Ala	Met	Thr	Pro	Thr	Val	Ala	Thr	Arg	Asp	Gly	Lys	Leu	Pro	Ala
	50					55						60			
Thr	Gln	Leu	Arg	Arg	Tyr	Ile	Asp	Leu	Leu	Val	Gly	Ser	Ala	Thr	Leu
	65				70					75				80	
Cys	Ser	Ala	Leu	Tyr	Val	Gly	Asp	Leu	Cys	Gly	Ser	Val	Phe	Leu	Val
	85					90						95			
Gly	Gln	Leu	Phe	Thr	Phe	Ser	Pro	Arg	Arg	Leu	Trp	Thr	Thr	Gln	Asp
	100				105							110			
Cys	Asn	Cys	Ser	Ile	Tyr	Pro	Gly	His	Ile	Thr	Gly	His	Arg	Met	Ala
	115					120					125				
Trp	Asp	Met	Met	Met	Asn	Trp	Ser	Pro	Thr	Thr	Ala	Leu	Val	Val	Ala
	130					135					140				
Gln	Leu	Leu	Arg	Ile	Pro	Gln	Ala	Ile	Leu	Asp	Met	Ile	Ala	Gly	Ala
	145				150					155			160		
His	Trp	Gly	Val	Leu	Ala	Gly	Ile	Ala	Tyr	Phe	Ser	Met	Val	Gly	Asn
	165					170						175			
Trp	Ala	Lys	Val	Leu	Val	Val	Leu	Leu	Leu	Phe	Ala	Gly	Val	Asp	Ala
	180					185						190			

<210> 57  
 <211> 192  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <223> Individual Isolate: S18

<400> 57

Tyr Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys  
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Thr Ile Leu His Ser  
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ala Ser Arg Cys Trp  
35 40 45

Val Pro Val Ala Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Ala  
50 55 60

Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu  
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val  
85 90 95

Ser Gln Leu Phe Thr Ile Ser Pro Arg Arg His Trp Thr Thr Gln Asp  
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Ile Ala  
130 135 140

Gln Leu Leu Arg Val Pro Gln Ala Val Leu Asp Met Ile Ala Gly Ala  
145 150 155 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Ala Gly Asn  
165 170 175

Trp Ala Lys Val Leu Leu Val Leu Leu Phe Ala Gly Val Asp Ala  
180 185 190

<210> 58

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SW1

<400> 58

Tyr Gln Val Arg Asn Ser Ser Gly Leu Tyr His Val Thr Asn Asp Cys  
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Ala Ile Leu His Ser  
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asp Gly Ala Pro Lys Cys Trp  
35 40 45

Val Ala Val Ala Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Ala  
50 55 60

Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu  
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val  
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Asp  
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ala  
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Leu Asp Met Ile Ala Gly Ala  
145 150 155 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn  
165 170 175

Trp Ala Lys Val Leu Ile Val Leu Leu Phe Ser Gly Val Asp Ala  
180 185 190

<210> 59

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: US11

<400> 59

Tyr Gln Val Arg Asn Ser Thr Gly Leu Tyr His Val Thr Asn Asp Cys  
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Ala Ile Leu His Thr  
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ala Ser Arg Cys Trp  
35 40 45

Val Ala Met Thr Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro Thr  
50 55 60

Thr Gln Leu Arg Arg His Ile Asp Leu Leu Val Gly Ser Ala Thr Leu  
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val  
85 90 95

Gly Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Thr Gln Gly  
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Ile Thr Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ala  
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Met Ile Ala Gly Ala  
145 150 155 160

His Trp Gly Val Leu Ala Gly Ile Ala Tyr Phe Ser Met Val Gly Asn  
165 170 175

Trp Ala Lys Val Leu Val Val Leu Leu Phe Ala Gly Val Asp Ala  
180 185 190

<210> 60

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: D1

<400> 60

Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys  
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr  
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asp Asn Ser Ser Arg Cys Trp  
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Gly Asn Val Pro Thr  
50 55 60

Thr Ala Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe  
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Ile  
85 90 95

Ser Gln Leu Phe Thr Leu Ser Pro Arg Arg His Glu Thr Val Gln Glu  
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser  
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Met Asp Met Val Ala Gly Ala  
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn  
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly  
180 185 190

<210> 61

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: D3

<400> 61

Tyr Glu Val Arg Asn Val Ser Gly Val Tyr Gln Val Thr Asn Asp Cys  
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr  
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asp Asn Ser Ser Arg Cys Trp  
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ser Ser Val Pro Thr  
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe  
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val  
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Glu  
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser  
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala  
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn  
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly  
180 185 190

<210> 62

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK1

<400> 62

Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys

1

5

10

15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Val Asp Val Ile Met His Thr  
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn His Ser Arg Cys Trp  
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Ile Pro Thr  
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe  
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val  
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Ala Gln Asp  
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Leu Ser  
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala  
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Ala Gly Asn  
165 170 175

Trp Ala Lys Val Leu Ile Val Leu Leu Phe Ala Gly Val Asp Gly  
180 185 190

<210> 63

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK3

<400> 63

Tyr Glu Val Arg Asn Val Ser Gly Ile Tyr His Val Thr Asn Asp Cys  
1 5 10 15

Ser Asn Ser Ser Val Val Tyr Glu Thr Ala Asp Met Ile Met His Thr  
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp  
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Val Ser Val Pro Thr  
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe  
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val  
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp  
100 105 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Val Ser Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser  
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala  
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn  
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly  
180 185 190

<210> 64

<211> 192  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: HK4

<400> 64

His	Glu	Val	His	Asn	Val	Ser	Gly	Ile	Tyr	His	Val	Thr	Asn	Asp	Cys
1					5					10					15
Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr															
		20				25					30				
Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp															
		35			40				45						
Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Ile Pro Thr															
	50		55		60										
Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe															
	65		70		75				80						
Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val															
	85		90		95										
Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp															
	100		105		110										
Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala															
	115		120		125										
Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser															
	130		135		140										
Gln Leu Leu Arg Leu Pro Gln Ala Val Met Asp Met Val Ala Gly Ala															
	145		150		155				160						
His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn															
	165		170		175										
Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly															
	180		185		190										

<210> 65  
<211> 192  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: HK5

<400> 65  
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys  
1 5 10 15  
  
Ser Asn Leu Ser Ile Val Tyr Glu Thr Thr Asp Met Ile Met His Thr  
20 25 30  
  
Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp  
35 40 45  
  
Val Ala Leu Ala Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Pro Thr  
50 55 60  
  
Thr Ala Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe  
65 70 75 80  
  
Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val  
85 90 95  
  
Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp  
100 105 110  
  
Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala  
115 120 125  
  
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser  
130 135 140  
  
Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala  
145 150 155 160  
  
His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn  
165 170 175  
  
Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly  
180 185 190

<210> 66  
<211> 192  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: HK8

<400> 66  
Tyr Glu Val Arg Asn Val Ser Gly Ile Tyr His Val Thr Asn Asp Cys  
1 5 10 15  
  
Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr  
20 25 30  
  
Pro Gly Cys Met Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp  
35 40 45  
  
Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Val Ser Val Pro Thr  
50 55 60  
  
Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe  
65 70 75 80  
  
Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val  
85 90 95  
  
Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp  
100 105 110  
  
Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala  
115 120 125  
  
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser  
130 135 140  
  
Gln Leu Leu Arg Ile Pro Gln Ala Ile Val Asp Met Val Ala Gly Ala  
145 150 155 160  
  
His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn  
165 170 175  
  
Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly  
180 185 190

<210> 67  
<211> 192  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: IND5

<400> 67  
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys  
1 5 10 15  
  
Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr  
20 25 30  
  
Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ser Ser Arg Cys Trp  
35 40 45  
  
Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Ser Thr  
50 55 60  
  
Thr Thr Ile Arg His His Val Asp Leu Leu Val Gly Ala Ala Ala Phe  
65 70 75 80  
  
Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val  
85 90 95  
  
Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp  
100 105 110  
  
Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala  
115 120 125  
  
Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser  
130 135 140  
  
Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala  
145 150 155 160  
  
His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn  
165 170 175  
  
Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly  
180 185 190

<210> 68  
<211> 192  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: IND8

<400> 68  
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys  
1 5 10 15  
Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr  
20 25 30  
Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Phe Ser Ser Cys Trp  
35 40 45  
Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Pro Thr  
50 55 60  
Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe  
65 70 75 80  
Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val  
85 90 95  
Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp  
100 105 110  
Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala  
115 120 125  
Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser  
130 135 140  
Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala  
145 150 155 160  
His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn  
165 170 175  
Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly  
180 185 190

<210> 69  
<211> 192  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: P10

<400> 69  
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys  
1 5 10 15  
  
Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr  
20 25 30  
  
Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp  
35 40 45  
  
Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ser Ser Val Pro Thr  
50 55 60  
  
Thr Ala Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe  
65 70 75 80  
  
Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Leu Leu Val  
85 90 95  
  
Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Trp Thr Val Gln Asp  
100 105 110  
  
Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala  
115 120 125  
  
Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser  
130 135 140  
  
Gln Leu Leu Arg Ile Pro Gln Ala Ile Leu Asp Val Val Ala Gly Ala  
145 150 155 160  
  
His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn  
165 170 175  
  
Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly  
180 185 190

<210> 70  
<211> 192  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: S9

<400> 70  
Tyr Glu Val Arg Asn Val Ser Gly Ala Tyr His Val Thr Asn Asp Cys  
1 5 10 15  
  
Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Val Ile Met His Thr  
20 25 30  
  
Pro Gly Cys Val Pro Cys Val Gln Glu Gly Asn Ser Ser Gln Cys Trp  
35 40 45  
  
Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Thr Val Pro Thr  
50 55 60  
  
Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Val Phe  
65 70 75 80  
  
Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Ile  
85 90 95  
  
Ser Gln Leu Phe Thr Ile Ser Pro Arg Arg His Glu Thr Val Gln Asn  
100 105 110  
  
Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala  
115 120 125  
  
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser  
130 135 140  
  
Gln Leu Leu Arg Ile Pro Gln Ala Val Met Asp Met Val Ala Gly Ala  
145 150 155 160  
  
His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn  
165 170 175  
  
Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly

180

185

190

<210> 71  
<211> 192  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: S45

<400> 71  
Tyr Glu Val Arg Asn Val Ser Gly Ala Tyr His Val Thr Asn Asp Cys  
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Val Asp Val Ile Leu His Thr  
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp  
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ser Ser Val Pro Thr  
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe  
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val  
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp  
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser  
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala  
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn  
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly  
180 185 190

<210> 72

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA10

<400> 72

Tyr Glu Val Arg Asn Val Ser Gly Met Tyr His Val Thr Asn Asp Cys  
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr  
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp  
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ser Ser Val Pro Thr  
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe  
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val  
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg Tyr Glu Thr Val Gln Asp  
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly Arg Val Thr Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser  
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Ile Val Asp Met Val Ala Gly Ala  
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn  
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly  
180 185 190

<210> 73  
<211> 192  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: SW2

<400> 73  
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr His Val Thr Asn Asp Cys  
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr  
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Ala Asn Ser Ser Arg Cys Trp  
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Thr Ser Val Pro Thr  
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe  
65 70 75 80

Cys Ser Val Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val  
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp  
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser  
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala  
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn

165

170

175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly  
180 185 190

<210> 74  
<211> 192  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: T3

<400> 74  
Tyr Glu Val Arg Asn Val Ser Gly Val Tyr Tyr Val Thr Asn Asp Cys  
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Thr Ala Asp Met Ile Met His Thr  
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Ser Asn Ser Ser Arg Cys Trp  
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Pro Thr  
50 55 60

Lys Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe  
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val  
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Val Gln Asp  
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Thr Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser  
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Val Asp Met Val Ala Gly Ala  
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn  
165 170 175

Trp Ala Lys Val Leu Ile Val Leu Leu Phe Ala Gly Val Asp Gly  
180 185 190

<210> 75  
<211> 192  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: T10

<400> 75  
Tyr Glu Val Arg Asn Val Ser Gly Met Tyr His Val Thr Asn Asp Cys  
1 5 10 15

Ser Asn Ser Ser Ile Val Phe Glu Ala Ala Asp Leu Ile Met His Thr  
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Ser Ser Arg Cys Trp  
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Thr Ser Val Pro Thr  
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Ala Phe  
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Val  
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Arg His Glu Thr Leu Gln Asp  
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Leu Ser Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Val Ser  
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Met Asp Met Val Thr Gly Ala  
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Ala Gly Asn  
165 170 175

Trp Ala Lys Val Leu Ile Val Met Leu Leu Phe Ala Gly Val Asp Gly  
180 185 190

<210> 76  
<211> 192  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: US6

<400> 76  
Tyr Glu Val Arg Asn Val Ser Gly Met Tyr His Val Thr Asn Asp Cys  
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Ala Asp Met Ile Met His Thr  
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Asn Asn Ser Ser Arg Cys Trp  
35 40 45

Val Ala Leu Thr Pro Thr Leu Ala Ala Arg Asn Ala Ser Val Pro Thr  
50 55 60

Thr Thr Ile Arg Arg His Val Asp Leu Leu Val Gly Ala Ala Thr Phe  
65 70 75 80

Cys Ser Ala Met Tyr Val Gly Asp Leu Cys Gly Ser Val Phe Leu Ile  
85 90 95

Ser Gln Leu Phe Thr Phe Ser Pro Arg Gln His Glu Thr Val Gln Asp  
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Asn Trp Ser Pro Thr Ala Ala Leu Val Val Ser  
130 135 140

Gln Leu Leu Arg Ile Pro Gln Ala Val Met Asp Met Val Ala Gly Ala

145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Tyr Tyr Ser Met Val Gly Asn  
165 170 175

Trp Ala Lys Val Leu Ile Val Leu Leu Phe Ala Gly Val Asp Gly  
180 185 190

<210> 77

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T2

<400> 77

Ala Gln Val Arg Asn Thr Ser Arg Gly Tyr Met Val Thr Asn Asp Cys  
1 5 10 15

Ser Asn Glu Ser Ile Thr Trp Gln Leu Gln Ala Ala Val Leu His Val  
20 25 30

Pro Gly Cys Ile Pro Cys Glu Arg Leu Gly Asn Thr Ser Arg Cys Trp  
35 40 45

Ile Pro Val Thr Pro Asn Val Ala Val Arg Gln Pro Gly Ala Leu Thr  
50 55 60

Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr Leu  
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Val Met Leu Ala  
85 90 95

Ala Gln Met Phe Ile Val Ser Pro Arg Arg His Trp Phe Val Gln Glu  
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly Thr Ile Thr Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Thr Met Ile Leu Ala  
130 135 140

Tyr Ala Met Arg Val Pro Glu Val Ile Ile Asp Ile Ile Gly Gly Ala  
145 150 155 160

His Trp Gly Val Met Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala  
165 170 175

Trp Ala Lys Val Ile Val Ile Leu Leu Ala Ala Gly Val Asp Ala  
180 185 190

<210> 78  
<211> 192  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: T4

<400> 78  
Ala Gln Val Lys Asn Thr Thr Asn Ser Tyr Met Val Thr Asn Asp Cys  
1 5 10 15

Ser Asn Asp Ser Ile Thr Trp Gln Leu Gln Ala Ala Val Leu His Val  
20 25 30

Pro Gly Cys Val Pro Cys Glu Lys Thr Gly Asn Thr Ser Arg Cys Trp  
35 40 45

Ile Pro Val Ser Pro Asn Val Ala Val Arg Gln Pro Gly Ala Leu Thr  
50 55 60

Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr Leu  
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Val Met Leu Ala  
85 90 95

Ala Gln Met Phe Ile Val Ser Pro Gln His His Trp Phe Val Gln Asp  
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly Thr Ile Thr Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ala Thr Met Ile Leu Ala  
130 135 140

Tyr Ala Met Arg Val Pro Glu Val Ile Leu Asp Ile Val Ser Gly Ala  
145 150 155 160

His Trp Gly Val Met Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala  
165 170 175

Trp Ala Lys Val Val Val Ile Leu Leu Ala Ala Gly Val Asp Ala  
180 185 190

<210> 79

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T9

<400> 79

Ala Glu Val Lys Asn Thr Ser Thr Ser Tyr Met Val Thr Asn Asp Cys  
1 5 10 15

Ser Asn Asp Ser Ile Thr Trp Gln Leu Gln Ala Ala Val Leu His Val  
20 25 30

Pro Gly Cys Val Pro Cys Glu Arg Val Gly Asn Ala Ser Arg Cys Trp  
35 40 45

Ile Pro Val Ser Pro Asn Val Ala Val Gln Arg Pro Gly Ala Leu Thr  
50 55 60

Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr Leu  
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Val Met Leu Ala  
85 90 95

Ala Gln Met Phe Ile Ile Ser Pro Gln His His Trp Phe Val Gln Glu  
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly Thr Ile Thr Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Met Ile Leu Ala



Trp Asp Met Met Asn Trp Ser Pro Thr Ala Thr Leu Ile Leu Ala  
130 135 140

Tyr Val Met Arg Val Pro Glu Val Ile Ile Asp Ile Ile Ser Gly Ala  
145 150 155 160

His Trp Gly Val Leu Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala  
165 170 175

Trp Ala Lys Val Val Val Ile Leu Leu Ala Ala Gly Val Asp Ala  
180 185 190

<210> 81

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK8

<400> 81

Val Glu Val Arg Asn Ile Ser Ser Ser Tyr Tyr Ala Thr Asn Asp Cys  
1 5 10 15

Ser Asn Asn Ser Ile Thr Trp Gln Leu Thr Asp Ala Val Leu His Leu  
20 25 30

Pro Gly Cys Val Pro Cys Glu Asn Asp Asn Gly Thr Leu Arg Cys Trp  
35 40 45

Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu Thr  
50 55 60

His Asn Leu Arg Thr His Val Asp Val Ile Val Met Ala Ala Thr Val  
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Val Met Ile Val  
85 90 95

Ser Gln Ala Leu Ile Ile Ser Pro Glu Arg His Asn Phe Thr Gln Glu  
100 105 110

Cys Asn Cys Ser Ile Tyr Gln Gly His Ile Thr Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Leu Asn Trp Ser Pro Thr Leu Thr Met Ile Leu Ala  
130 135 140

Tyr Ala Ala Arg Val Pro Glu Leu Ala Leu Gln Val Val Phe Gly Gly  
145 150 155 160

His Trp Gly Val Val Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala  
165 170 175

Trp Ala Lys Val Ile Ala Ile Leu Leu Val Ala Gly Val Asp Ala  
180 185 190

<210> 82

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK11

<400> 82

Val Glu Val Arg Asn Thr Ser Ser Ser Tyr Tyr Ala Thr Asn Asp Cys  
1 5 10 15

Ser Asn Asn Ser Ile Thr Trp Gln Leu Thr Asn Ala Val Leu His Leu  
20 25 30

Pro Gly Cys Val Pro Cys Glu Asn Asp Asn Gly Thr Leu His Cys Trp  
35 40 45

Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu Thr  
50 55 60

His Asn Leu Arg Ala His Ile Asp Met Ile Val Met Ala Ala Thr Val  
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Val Met Ile Val  
85 90 95

Ser Gln Ala Phe Ile Val Ser Pro Glu His His His Phe Thr Gln Glu  
100 105 110

Cys Asn Cys Ser Ile Tyr Gln Gly His Ile Thr Gly His Arg Met Ala

115

120

125

Trp Asp Met Met Leu Asn Trp Ser Pro Thr Leu Thr Met Ile Leu Ala  
130 135 140

Tyr Ala Ala Arg Val Pro Glu Leu Val Leu Glu Val Val Phe Gly Gly  
145 150 155 160

His Trp Gly Val Val Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala  
165 170 175

Trp Ala Lys Val Ile Ala Ile Leu Leu Leu Val Ala Gly Val Asp Ala  
180 185 190

<210> 83

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SW3

<400> 83

Val Glu Val Arg Asn Ile Ser Ser Ser Tyr Tyr Ala Thr Asn Asp Cys  
1 5 10 15

Ser Asn Ser Ser Ile Thr Trp Gln Leu Thr Asn Ala Val Leu His Leu  
20 25 30

Pro Gly Cys Val Pro Cys Glu Asn Asp Asn Gly Thr Leu His Cys Trp  
35 40 45

Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu Thr  
50 55 60

His Asn Leu Arg Ala His Val Asp Met Ile Val Met Ala Ala Thr Val  
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Met Ile Val  
85 90 95

Ser Gln Ala Phe Ile Ile Ser Pro Glu Arg His Asn Phe Thr Gln Glu  
100 105 110

Cys Asn Cys Ser Ile Tyr Gln Gly Arg Ile Thr Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Leu Asn Trp Ser Pro Thr Leu Thr Met Ile Leu Ala  
130 135 140

Tyr Ala Ala Arg Val Pro Glu Leu Val Leu Glu Val Val Phe Gly Gly  
145 150 155 160

His Trp Gly Val Val Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala  
165 170 175

Trp Ala Lys Val Ile Ala Ile Leu Leu Leu Val Ala Gly Val Asp Ala  
180 185 190

<210> 84

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T8

<400> 84

Val Glu Val Arg Asn Thr Ser Phe Ser Tyr Tyr Ala Thr Asn Asp Cys  
1 5 10 15

Ser Asn Asn Ser Ile Thr Trp Gln Leu Thr Asn Ala Val Leu His Leu  
20 25 30

Pro Gly Cys Val Pro Cys Glu Asn Asp Asn Gly Thr Leu Arg Cys Trp  
35 40 45

Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu Thr  
50 55 60

His Asn Leu Arg Thr His Val Asp Val Ile Val Met Ala Ala Thr Val  
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Val Met Ile Ala  
85 90 95

Ser Gln Ala Phe Ile Ile Ser Pro Glu Arg His Asn Phe Thr Gln Glu  
100 105 110

Cys Asn Cys Ser Ile Tyr Gln Gly His Ile Thr Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Leu Asn Trp Ser Pro Thr Leu Thr Met Ile Leu Ala  
130 135 140

Tyr Ala Ala Arg Val Pro Glu Leu Val Leu Glu Val Val Phe Gly Gly  
145 150 155 160

His Trp Gly Val Val Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ala  
165 170 175

Trp Ala Lys Val Ile Ala Ile Leu Leu Leu Val Ala Gly Val Asp Ala  
180 185 190

<210> 85

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S83

<400> 85

Val Glu Val Lys Asp Thr Gly Asp Ser Tyr Met Pro Thr Asn Asp Cys  
1 5 10 15

Ser Asn Ser Ser Ile Val Trp Gln Leu Glu Gly Ala Val Leu His Thr  
20 25 30

Pro Gly Cys Val Pro Cys Glu Arg Thr Ala Asn Val Ser Arg Cys Trp  
35 40 45

Val Pro Val Ala Pro Asn Leu Ala Ile Ser Gln Pro Gly Ala Leu Thr  
50 55 60

Lys Gly Leu Arg Ala His Ile Asp Ile Ile Val Met Ser Ala Thr Val  
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Leu Met Leu Ala  
85 90 95

Ala Gln Val Val Val Ser Pro Gln His His Thr Phe Val Gln Glu

100	105	110	
Cys Asn Cys Ser Ile Tyr Pro Gly Arg Ile Thr Gly His Arg Met Ala			
115	120	125	
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Met Leu Leu Ala			
130	135	140	
Tyr Leu Val Arg Ile Pro Glu Val Ile Leu Asp Ile Val Thr Gly Gly			
145	150	155	160
His Trp Gly Val Met Phe Gly Leu Ala Tyr Phe Ser Met Gln Gly Ser			
165	170	175	
Trp Ala Lys Val Ile Val Ile Leu Leu Leu Thr Ala Gly Val Glu Ala			
180	185	190	

<210> 86  
 <211> 192  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <223> Individual Isolate: DK12

<400> 86  
 Leu Glu Trp Arg Asn Val Ser Gly Leu Tyr Val Leu Thr Asn Asp Cys  
 1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr  
 20 25 30

Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Thr Cys Trp  
 35 40 45

Thr Ser Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr  
 50 55 60

Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Met  
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Val Cys Gly Ala Val Phe Leu Val  
 85 90 95

Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr  
100 105 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Leu Ser Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala  
130 135 140

His Val Leu Arg Leu Pro Gln Thr Leu Phe Asp Ile Ile Ala Gly Ala  
145 150 155 160

His Trp Gly Ile Met Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn  
165 170 175

Trp Ala Lys Val Ala Ile Ile Met Val Met Phe Ser Gly Val Asp Ala  
180 185 190

<210> 87  
<211> 192  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: HK10

<400> 87  
Leu Glu Trp Arg Asn Val Ser Gly Leu Tyr Val Leu Thr Asn Asp Cys  
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr  
20 25 30

Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Thr Cys Trp  
35 40 45

Thr Ser Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr  
50 55 60

Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Met  
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Phe Leu Val  
85 90 95

Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr  
100 105 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Leu Ser Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala  
130 135 140

His Val Leu Arg Leu Pro Gln Thr Leu Phe Asp Ile Ile Ala Gly Ala  
145 150 155 160

His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn  
165 170 175

Trp Ala Lys Val Ala Ile Ile Met Val Met Phe Ser Gly Val Asp Ala  
180 185 190

<210> 88

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S2

<400> 88

Leu Glu Trp Arg Asn Thr Ser Gly Leu Tyr Val Leu Thr Asn Asp Cys  
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr  
20 25 30

Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Thr Cys Trp  
35 40 45

Thr Pro Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr  
50 55 60

Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Met  
65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Phe Leu Val

85

90

95

Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr  
100 105 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Leu Ser Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala  
130 135 140

His Val Leu Arg Leu Pro Gln Thr Val Phe Asp Ile Ile Ala Gly Ala  
145 150 155 160

His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn  
165 170 175

Trp Ala Lys Val Ala Ile Ile Met Val Met Phe Ser Gly Val Asp Ala  
180 185 190

<210> 89

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S52

<400> 89

Leu Glu Trp Arg Asn Thr Ser Gly Leu Tyr Val Leu Thr Asn Asp Cys  
1 5 10 15

Ser Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Val Ile Leu His Thr  
20 25 30

Pro Gly Cys Val Pro Cys Val Gln Asp Gly Asn Thr Ser Met Cys Trp  
35 40 45

Thr Pro Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr Thr  
50 55 60

Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr Leu  
65 70 75 80

Cys	Ser	Ala	Leu	Tyr	Val	Gly	Asp	Met	Cys	Gly	Ala	Val	Phe	Leu	Val
85									90						95
Gly	Gln	Ala	Phe	Thr	Phe	Arg	Pro	Arg	Arg	His	Gln	Thr	Val	Gln	Thr
100						105									110
Cys	Asn	Cys	Ser	Leu	Tyr	Pro	Gly	His	Val	Ser	Gly	His	Arg	Met	Ala
115						120									125
Trp	Asp	Met	Met	Met	Asn	Trp	Ser	Pro	Ala	Val	Gly	Met	Val	Val	Ala
130						135					140				
His	Ile	Leu	Arg	Leu	Pro	Gln	Thr	Leu	Phe	Asp	Ile	Leu	Ala	Gly	Ala
145						150				155					160
His	Trp	Gly	Ile	Leu	Ala	Gly	Leu	Ala	Tyr	Tyr	Ser	Met	Gln	Gly	Asn
165						170									175
Trp	Ala	Lys	Val	Ala	Ile	Val	Met	Ile	Met	Phe	Ser	Gly	Val	Asp	Ala
180						185									190

<210> 90

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S54

<400> 90

Leu	Glu	Trp	Arg	Asn	Thr	Ser	Gly	Leu	Tyr	Ile	Leu	Thr	Asn	Asp	Cys
1				5						10					15

Ser	Asn	Ser	Ser	Ile	Val	Tyr	Glu	Ala	Asp	Asp	Val	Ile	Leu	His	Thr
20								25						30	

Pro	Gly	Cys	Val	Pro	Cys	Val	Gln	Asp	Gly	Asn	Thr	Ser	Thr	Cys	Trp
35								40							45

Thr	Pro	Val	Thr	Pro	Thr	Val	Ala	Val	Arg	Tyr	Val	Gly	Ala	Thr	Thr
50								55							60

Ala	Ser	Ile	Arg	Ser	His	Val	Asp	Leu	Leu	Val	Gly	Ala	Ala	Thr	Leu
65						70					75				80

Cys Ser Ala Leu Tyr Val Gly Asp Met Cys Gly Ala Val Phe Leu Val  
85 90 95

Gly Gln Ala Phe Thr Phe Arg Pro Arg Arg His Gln Thr Val Gln Thr  
100 105 110

Cys Asn Cys Ser Leu Tyr Pro Gly His Leu Ser Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Ala Val Gly Met Val Val Ala  
130 135 140

His Ile Leu Arg Leu Pro Gln Thr Leu Phe Asp Ile Leu Ala Gly Ala  
145 150 155 160

His Trp Gly Ile Leu Ala Gly Leu Ala Tyr Tyr Ser Met Gln Gly Asn  
165 170 175

Trp Ala Lys Val Ala Ile Ile Met Ile Met Phe Ser Gly Val Asp Ala  
180 185 190

<210> 91

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: Z4

<400> 91

Glu His Tyr Arg Asn Ala Ser Gly Ile Tyr His Ile Thr Asn Asp Cys  
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp His His Ile Leu His Leu  
20 25 30

Pro Gly Cys Val Pro Cys Val Met Thr Gly Asn Thr Ser Arg Cys Trp  
35 40 45

Thr Pro Val Thr Pro Thr Val Ala Val Ala His Pro Gly Ala Pro Leu  
50 55 60

Glu Ser Phe Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr Leu

65	70	75	80
Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Ala Phe Leu Met			
85	90		95
Gly Gln Met Ile Thr Phe Arg Pro Arg Arg His Trp Thr Thr Gln Glu			
100	105		110
Cys Asn Cys Ser Ile Tyr Thr Gly His Ile Thr Gly His Arg Met Ala			
115	120		125
Trp Asp Met Met Asn Trp Ser Pro Thr Thr Thr Leu Leu Leu Ala			
130	135		140
Gln Ile Met Arg Val Pro Thr Ala Phe Leu Asp Met Val Ala Gly Gly			
145	150		155
His Trp Gly Val Leu Ala Gly Leu Ala Tyr Phe Ser Met Gln Gly Asn			
165	170		175
Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala			
180	185		190

<210> 92  
<211> 192  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: Z1

<400> 92  
Val His Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys  
1 5 10 15

Pro Asn Thr Ser Ile Val Tyr Glu Thr Glu His His Ile Met His Leu  
20 25 30

Pro Gly Cys Val Pro Cys Val Arg Thr Glu Asn Thr Ser Arg Cys Trp  
35 40 45

Val Pro Leu Thr Pro Thr Val Ala Ala Pro Tyr Pro Asn Ala Pro Leu  
50 55 60

Glu Ser Met Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr Met  
65 70 75 80

Cys Ser Ala Phe Tyr Ile Gly Asp Leu Cys Gly Gly Val Phe Leu Val  
85 90 95

Gly Gln Leu Phe Asp Phe Arg Pro Arg Arg His Trp Thr Thr Gln Asp  
100 105 110

Cys Asn Cys Ser Ile Tyr Pro Gly His Val Ser Gly His Arg Met Ala  
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Ser Ala Leu Ile Met Ala  
130 135 140

Gln Ile Leu Arg Ile Pro Ser Ile Leu Gly Asp Leu Leu Thr Gly Gly  
145 150 155 160

His Trp Gly Val Leu Ala Gly Leu Ala Phe Phe Ser Met Gln Ser Asn  
165 170 175

Trp Ala Lys Val Ile Leu Val Leu Phe Leu Phe Ala Gly Val Glu Gly  
180 185 190

<210> 93  
<211> 192  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: Z6

<400> 93  
Val Asn Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys  
1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Glu His Gln Ile Leu His Leu  
20 25 30

Pro Gly Cys Leu Pro Cys Val Arg Val Gly Asn Gln Ser Arg Cys Trp  
35 40 45

Val Ala Leu Thr Pro Thr Val Ala Val Ser Tyr Ile Gly Ala Pro Leu  
50 55 60

Asp Ser Leu Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr Val			
65	70	75	80
Cys Ser Ala Leu Tyr Val Gly Asp Leu Cys Gly Gly Ala Phe Leu Val			
85	90	95	
Gly Gln Met Phe Ser Phe Gln Pro Arg Arg His Trp Thr Thr Gln Asp			
100	105	110	
Cys Asn Cys Ser Ile Tyr Ala Gly His Ile Thr Gly His Arg Met Ala			
115	120	125	
Trp Asp Met Met Asn Trp Ser Pro Thr Thr Thr Leu Leu Leu Ala			
130	135	140	
Gln Val Met Arg Ile Pro Ser Thr Leu Val Asp Leu Leu Ala Gly Gly			
145	150	155	160
His Trp Gly Val Leu Val Gly Leu Ala Tyr Phe Ser Met Gln Ala Asn			
165	170	175	
Trp Ala Lys Val Ile Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala			
180	185	190	

<210> 94  
 <211> 192  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <223> Individual Isolate: Z7

<400> 94  
 Val Asn Tyr His Asn Ala Ser Gly Val Tyr His Ile Thr Asn Asp Cys  
 1 5 10 15

Pro Asn Ser Ser Ile Met Tyr Glu Ala Glu His His Ile Leu His Leu  
 20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Gln Ser Arg Cys Trp  
 35 40 45

Val Ala Leu Thr Pro Thr Val Ala Ala Pro Tyr Ile Gly Ala Pro Leu

50	55	60
Glu Ser Ile Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr Val		
65	70	75
Cys Ser Ala Leu Tyr Ile Gly Asp Leu Cys Gly Gly Val Phe Leu Val		
85	90	95
Gly Gln Met Phe Ser Phe Gln Pro Arg Arg His Trp Thr Thr Gln Asp		
100	105	110
Cys Asn Cys Ser Ile Tyr Ala Gly His Val Thr Gly His Arg Met Ala		
115	120	125
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Leu Val Leu Ala		
130	135	140
Gln Val Met Arg Ile Pro Ser Thr Leu Val Asp Leu Leu Thr Gly Gly		
145	150	155
His Trp Gly Ile Leu Ile Gly Val Ala Tyr Phe Cys Met Gln Ala Asn		
165	170	175
Trp Ala Lys Val Ile Leu Val Leu Phe Leu Tyr Ala Gly Val Asp Ala		
180	185	190

<210> 95  
 <211> 192  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <223> Individual Isolate: DK13

<400> 95  
 Tyr Asn Tyr Arg Asn Ser Ser Gly Val Tyr His Val Thr Asn Asp Cys  
 1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Thr Asp Tyr His Ile Leu His Leu  
 20 25 30

Pro Gly Cys Val Pro Cys Val Arg Glu Gly Asn Lys Ser Thr Cys Trp  
 35 40 45

Val	Ser	Leu	Thr	Pro	Thr	Val	Ala	Ala	Gln	His	Leu	Asn	Ala	Pro	Leu
50						55				60					
Glu	Ser	Leu	Arg	Arg	His	Val	Asp	Leu	Met	Val	Gly	Gly	Ala	Thr	Leu
65						70				75				80	
Cys	Ser	Ala	Leu	Tyr	Ile	Gly	Asp	Val	Cys	Gly	Gly	Val	Phe	Leu	Val
					85				90				95		
Gly	Gln	Leu	Phe	Thr	Phe	Gln	Pro	Arg	Arg	His	Trp	Thr	Thr	Gln	Asp
					100			105				110			
Cys	Asn	Cys	Ser	Ile	Tyr	Thr	Gly	His	Ile	Thr	Gly	His	Arg	Met	Ala
					115			120				125			
Trp	Asp	Met	Met	Met	Asn	Trp	Ser	Pro	Thr	Ala	Thr	Leu	Val	Leu	Ala
					130			135			140				
Gln	Leu	Met	Arg	Ile	Pro	Gly	Ala	Met	Val	Asp	Leu	Leu	Ala	Gly	Gly
					145			150			155			160	
His	Trp	Gly	Ile	Leu	Val	Gly	Ile	Ala	Tyr	Phe	Ser	Met	Gln	Ala	Asn
					165			170				175			
Trp	Ala	Lys	Val	Ile	Leu	Val	Leu	Phe	Leu	Phe	Ala	Gly	Val	Asp	Ala
					180			185				190			

<210> 96  
 <211> 192  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <223> Individual Isolate: SA1

<400> 96  
 Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys  
 1 5 10 15  
 Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Ser Leu Ile Leu His Ala  
 20 25 30  
 Pro Gly Cys Val Pro Cys Val Arg Gln Asp Asn Val Ser Arg Cys Trp  
 35 40 45

Val Gln Ile Thr Pro Thr Leu Ser Ala Pro Thr Phe Gly Ala Val Thr			
50	55	60	
Ala Pro Leu Arg Arg Ala Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu			
65	70	75	80
Cys Ser Ala Leu Tyr Val Gly Asp Ala Cys Gly Ala Val Phe Leu Val			
85	90	95	
Gly Gln Met Phe Thr Tyr Arg Pro Arg Gln His Thr Thr Val Gln Asp			
100	105	110	
Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala			
115	120	125	
Trp Asp Met Met Asn Trp Ser Pro Thr Thr Ala Leu Leu Met Ala			
130	135	140	
Gln Met Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Gly			
145	150	155	160
His Trp Gly Val Leu Phe Ala Ala Ala Tyr Phe Ala Ser Ala Ala Asn			
165	170	175	
Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Gly			
180	185	190	

<210> 97  
 <211> 192  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <223> Individual Isolate: SA4

<400> 97  
 Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys  
 1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asn Leu Ile Leu His Ala  
 20 25 30

Pro Gly Cys Val Pro Cys Val Arg Gln Asp Asn Val Ser Lys Cys Trp

35	40	45
Val Gln Ile Thr Pro Thr Leu Ser Ala Pro Asn Leu Gly Ala Val Thr		
50	55	60
Ala Pro Leu Arg Arg Ala Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu		
65	70	75
Cys Ser Ala Leu Tyr Val Gly Asp Ala Cys Gly Ala Val Phe Leu Val		
85	90	95
Gly Gln Met Phe Thr Tyr Arg Pro Arg Gln His Thr Thr Val Gln Asp		
100	105	110
Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala		
115	120	125
Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Leu Met Ala		
130	135	140
Gln Leu Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Gly		
145	150	155
160		
His Trp Gly Val Leu Phe Ala Ala Ala Tyr Phe Ala Ser Ala Ala Asn		
165	170	175
Trp Ala Lys Val Ile Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala		
180	185	190

<210> 98  
 <211> 192  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <223> Individual Isolate: SA5

<400> 98  
 Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys  
 1 5 10 15  
 Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asn Leu Ile Leu His Ala  
 20 25 30

Pro	Gly	Cys	Val	Pro	Cys	Val	Lys	Glu	Gly	Asn	Val	Ser	Arg	Cys	Trp
35							40						45		
Val	Gln	Ile	Thr	Pro	Thr	Leu	Ser	Ala	Pro	Asn	Leu	Gly	Ala	Val	Thr
50						55					60				
Ala	Pro	Leu	Arg	Arg	Val	Val	Asp	Tyr	Leu	Ala	Gly	Gly	Ala	Ala	Leu
65					70				75				80		
Cys	Ser	Ala	Leu	Tyr	Val	Gly	Asp	Ala	Cys	Gly	Ala	Val	Phe	Leu	Val
85						90						95			
Gly	Gln	Met	Phe	Thr	Tyr	Arg	Pro	Arg	Gln	His	Thr	Thr	Val	Gln	Asp
100						105					110				
Cys	Asn	Cys	Ser	Ile	Tyr	Ser	Gly	His	Ile	Thr	Gly	His	Arg	Met	Ala
115						120				125					
Trp	Asp	Met	Met	Met	Asn	Trp	Ser	Pro	Thr	Thr	Ala	Leu	Val	Met	Ala
130						135				140					
Gln	Val	Leu	Arg	Ile	Pro	Gln	Val	Val	Ile	Asp	Ile	Ile	Ala	Gly	Gly
145						150				155			160		
His	Trp	Gly	Val	Leu	Phe	Ala	Val	Ala	Tyr	Phe	Ala	Ser	Ala	Ala	Asn
165						170					175				
Trp	Ala	Lys	Val	Val	Leu	Val	Phe	Leu	Phe	Ala	Gly	Val	Asp	Gly	
180						185					190				

<210> 99  
 <211> 192  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <223> Individual Isolate: SA6

<400> 99  
 Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys  
 1 5 10 15

Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asp Leu Ile Leu His Ala  
 20 25 30

Pro	Gly	Cys	Val	Pro	Cys	Val	Arg	Lys	Asp	Asn	Val	Ser	Arg	Cys	Trp
35														45	
Val	His	Ile	Thr	Pro	Thr	Leu	Ser	Ala	Pro	Ser	Leu	Gly	Ala	Val	Thr
50														60	
Ala	Pro	Leu	Arg	Arg	Ala	Val	Asp	Tyr	Leu	Ala	Gly	Gly	Ala	Ala	Leu
65														80	
Cys	Ser	Ala	Leu	Tyr	Val	Gly	Asp	Val	Cys	Gly	Ala	Leu	Phe	Leu	Val
85														95	
Gly	Gln	Met	Phe	Thr	Tyr	Arg	Pro	Arg	Gln	His	Ala	Thr	Val	Gln	Asp
100														110	
Cys	Asn	Cys	Ser	Ile	Tyr	Ser	Gly	His	Ile	Thr	Gly	His	Arg	Met	Ala
115														125	
Trp	Asp	Met	Met	Met	Asn	Trp	Ser	Pro	Ala	Thr	Ala	Leu	Val	Met	Ala
130														140	
Gln	Met	Leu	Arg	Ile	Pro	Gln	Val	Val	Ile	Asp	Ile	Ile	Ala	Gly	Gly
145														160	
His	Trp	Gly	Val	Leu	Phe	Ala	Ala	Ala	Tyr	Phe	Ala	Ser	Ala	Ala	Asn
165														175	
Trp	Ala	Lys	Val	Val	Leu	Val	Leu	Phe	Leu	Phe	Ala	Gly	Val	Asp	Ala
180														190	

<210> 100

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA7

<400> 100

Val	Pro	Tyr	Arg	Asn	Ala	Ser	Gly	Val	Tyr	His	Val	Thr	Asn	Asp	Cys
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Pro Asn Ser Ser Ile Val Tyr Glu Ala Asp Asn Leu Ile Leu His Ala

20

25

30

Pro Gly Cys Val Pro Cys Val Arg Gln Asn Asn Val Ser Arg Cys Trp  
 35 40 45

Val Gln Ile Thr Pro Thr Leu Ser Ala Pro Asn Leu Gly Ala Val Thr  
 50 55 60

Ala Pro Leu Arg Arg Ala Val Asp Tyr Leu Ala Gly Gly Ala Ala Leu  
 65 70 75 80

Cys Ser Ala Leu Tyr Val Gly Asp Ala Cys Gly Ala Val Phe Leu Val  
 85 90 95

Gly Gln Met Phe Ser Tyr Arg Pro Arg Gln His Thr Thr Val Gln Asp  
 100 105 110

Cys Asn Cys Ser Ile Tyr Ser Gly His Ile Thr Gly His Arg Met Ala  
 115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Ala Leu Val Met Ala  
 130 135 140

Gln Leu Leu Arg Ile Pro Gln Val Val Ile Asp Ile Ile Ala Gly Gly  
 145 150 155 160

His Trp Gly Val Leu Phe Ala Ala Ala Tyr Phe Ala Ser Ala Ala Asn  
 165 170 175

Trp Ala Lys Val Val Leu Val Leu Phe Leu Phe Ala Gly Val Asp Ala  
 180 185 190

&lt;210&gt; 101

&lt;211&gt; 192

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;223&gt; Individual Isolate: SA13

&lt;400&gt; 101

Val Pro Tyr Arg Asn Ala Ser Gly Val Tyr His Val Thr Asn Asp Cys  
 1 5 10 15

Pro	Asn	Ser	Ser	Ile	Val	Tyr	Glu	Ala	Asp	Asp	Leu	Ile	Leu	His	Ala
20														30	
Pro	Gly	Cys	Val	Pro	Cys	Val	Arg	Gln	Gly	Asn	Val	Ser	Arg	Cys	Trp
35														45	
Val	Gln	Ile	Thr	Pro	Thr	Leu	Ser	Ala	Pro	Ser	Leu	Gly	Ala	Val	Thr
50														60	
Ala	Pro	Leu	Arg	Arg	Ala	Val	Asp	Tyr	Leu	Ala	Gly	Gly	Ala	Ala	Leu
65														80	
Cys	Ser	Ala	Leu	Tyr	Val	Gly	Asp	Ala	Cys	Gly	Ala	Val	Phe	Leu	Val
85														95	
Gly	Gln	Met	Phe	Thr	Tyr	Ser	Pro	Arg	Arg	His	Asn	Val	Val	Gln	Asp
100														110	
Cys	Asn	Cys	Ser	Ile	Tyr	Ser	Gly	His	Ile	Thr	Gly	His	Arg	Met	Ala
115														125	
Trp	Asp	Met	Met	Met	Asn	Trp	Ser	Pro	Thr	Thr	Ala	Leu	Val	Met	Ala
130														140	
Gln	Leu	Leu	Arg	Ile	Pro	Gln	Val	Val	Ile	Asp	Ile	Ile	Ala	Gly	Ala
145														160	
His	Trp	Gly	Val	Leu	Phe	Ala	Ala	Ala	Tyr	Tyr	Ala	Ser	Ala	Ala	Asn
165														175	
Trp	Ala	Lys	Val	Val	Leu	Val	Leu	Phe	Leu	Phe	Ala	Gly	Val	Asp	Ala
180														190	

<210> 102

<211> 192

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK2

<400> 102

Leu	Thr	Tyr	Gln	Asn	Ser	Ser	Gln	Leu	Tyr	His	Leu	Thr	Asn	Asp	Cys
1														15	

Pro Asn Ser Ser Ile Val Leu Glu Ala Asp Ala Met Ile Leu His Leu  
20 25 30

Pro Gln Cys Leu Pro Cys Val Arg Val Asp Asp Arg Ser Thr Cys Trp  
35 40 45

His Ala Val Thr Pro Thr Leu Ala Ile Pro Asn Ala Ser Thr Pro Ala  
50 55 60

Thr Gln Phe Arg Arg His Val Asp Leu Leu Ala Gln Ala Ala Val Val  
65 70 75 80

Cys Ser Ser Leu Tyr Ile Gln Asp Leu Cys Gln Ser Leu Phe Leu Ala  
85 90 95

Gln Gln Leu Phe Thr Phe Gln Pro Arg Arg His Trp Thr Val Gln Asp  
100 105 110

Cys Asn Cys Ser Ile Tyr Thr Gln His Val Thr Gln His Arg Met Ala  
115 120 125

Trp Asp Met Met Met Asn Trp Ser Pro Thr Thr Thr Leu Val Leu Ser  
130 135 140

Ser Ile Leu Arg Val Pro Glu Ile Cys Ala Ser Val Ile Phe Gln Gln  
145 150 155 160

His Trp Gln Ile Leu Leu Ala Val Ala Tyr Phe Gln Met Ala Gln Asn  
165 170 175

Trp Leu Lys Val Leu Ala Val Leu Phe Leu Phe Ala Gln Val Glu Ala  
180 185 190

<210> 103

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: DK7

<400> 103

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gacgtcaagt tcccgggtgg cggtcagatc gttgggtggag tttacttgtt gccgcgcagg 120  
ggccctagat tgggtgtcg cgccgcgagg aagacttccg agcggtcgca acctcgaggt 180  
agacgtcagc ctatccccaa ggcacgtcg cccgagggca ggacctgggc tcagccccc 240  
tacccttggc ccctctatgg caatgagggc tgccgggtggg cgggatggct cctgtctccc 300  
cgtggctctc ggcctagctg gggccccaca gaccccccgc gcaggtcgca caatttgggt 360  
aaagtcatcg atacccttac gtgcggcttc gccgaccta tgggtacat accgctcgtc 420  
ggccccctc ttggaggcgca tgccaggccc ctggcgcatg gcgtccgggt tctggaagac 480  
ggcgtgaact atgcaacagg gaaccttcctt ggttgcctt tctctatctt ccttggcc 540  
ctgctcttgc ctgaccgt gcccgttcg gcc 573

<210> 104  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: US11

<400> 104  
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gacgtcaagt tcccgggtgg cggtcagatc gttgggtggag tttacttgtt gccgcgcagg 120  
ggccctagat tgggtgtcg cgccgcgagg aagacttccg agcggtcgca acctcgaggt 180  
agacgtcagc ctatccccaa ggcacgtcg cccgagggca ggacctgggc tcagccccc 240  
tacccttggc ccctctatgg caatgagggc tgccgggtggg cgggatggct cctgtctccc 300  
cgtggctctc ggcctagctg gggccccacg gaccccccgc gtaggtcgca caatttgggt 360  
aaggcatcg atacccttac gtgcggcttc gccgaccta tgggtacat accgctcgtc 420  
ggccccctc tcggaggcgca tgccaggccc ctggcgcatg gcgtccgggt tctggaagac 480  
ggcgtgaact atgcaacagg gaaccttcctt ggttgcctt tctctatctt ccttggcc 540  
ctgctcttgc ctgactgt gcccgttcg gcc 573

<210> 105  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: S14

<400> 105  
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gacgtcaagt tcccgggtgg cggtcagatc gttgggtggag tttacttgtt gccgcgcagg 120  
ggccctagat tgggtgtcg cgccgcgagg aagacttccg agcggtcgca acctcgaggt 180  
agacgtcagc ctatccccaa ggcacgtcg cccgagggca ggacctgggc tcagccccc 240  
tacccttggc ccctctatgg caatgagggc tgccgggtggg cgggatggct cctgtctccc 300  
cgtggctctc ggcctagctg gggccccaca gaccccccgc gtaggtcgca caatttgggt 360  
aaggcatcg atacccttac gtgcggcttc gccgaccta tgggtacat accgctcgtc 420

ggcgcccccc tcgggggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaagac 480  
ggcgtgaact atgcaacagg gaaccttcct ggttgctctt tctctatctt cctcctagcc 540  
ctgctttctt gcctgactgt gcccgttca gcc 573

<210> 106  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: SW1

<400> 106  
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gacgtcaagt tcccgggtgg cggtcagatc gttgggtggag tttacttgg tccgcgcagg 120  
ggccctagat tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcgaggt 180  
agacgtcagc ctatccccaa ggccgtcgg cccgagggca ggacctgggc tcagccccc 240  
tatccttggc ccctctatgg caatgagggc tgccggatggg cgggatggct cctgtcccc 300  
cgtggctctc ggccctagctg gggccctaca gaccccccggc gtaggtcgcg caatttgggt 360  
aaggtcatcg ataccctcac gtgcggcttc gccgacctca tgggttacat tccgctcgtc 420  
ggcgccccctc ttggaggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaagac 480  
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ctgctttctt gcctgacagt gcccgtcga gcc 573

<210> 107  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: S18

<400> 107  
atagacacaa atcctaaacc tcaaagaaaa accaaacgta acaccaacccg tcgcccacag 60  
gacgttaagt tcccgggtgg cggtcagatc gttgggtggag tttacttgg tccgcgcagg 120  
ggccctagat tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcgcggt 180  
agacgtcagc ctatccccaa ggccgtcgg cccgagggca ggacctgggc tcagccccc 240  
tacccttggc ccctctatgg caatgagggc tgccggatggg cgggatggct cctgtcccc 300  
cgtggctccc ggccctagctg gggccctaca gaccccccggc gtaggtcgcg caatttgggc 360  
aaagtcatcg ataccctcac gtgcggcttc gccgacctca tgggttacat tccgctcgtc 420  
ggcgccccctc tcggaggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaagac 480  
ggcgtgaact atgcaacagg gaaccttcct ggttgctctt tctctatctt cttctggcc 540  
ctgctctctt gtctgactgt gcccgtcga gct 573

<210> 108

<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: DR4

<400> 108  
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccc tcgcccacag 60  
gacgtcaagt tcccgggtgg cggtcagatc gttgggtggag tttacttgg 120  
ggccctagat tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcgaggt 180  
agacgtcagc ctatccccaa ggccgtcg 240  
tacccttggc ccctctatgg caatgagggc tgccgggtggg cggatggct cctgtcccc 300  
cgtggctctc ggcctagctg gggccccaca gaccccccgc gtaggtcg 360  
aaggtcatcg acaccctcac gtgcggcttc gccgaccta tgggtacat cccgctcg 420  
ggccccccctt tggggggcgc tgccagggcc ctggcgcatg gcgtccgagt tctggaagac 480  
ggcgtgaact atgcaacagg gaatcttc 540  
ttgctctctt gcttggaccgt gcccgcatacg gcc 573

<210> 109  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: SA10

<400> 109  
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gacgtcaagt tcccgggcgg tgggtcagatc gttgggtggag tctatctgg 120  
ggccccaggt tgggtgtgcg cgcgacgagg aagacttccg agcggtcgca acctcg 180  
aggcgacaac ctatccccaa ggctcgccag cccgagggca ggacctggc ccagccccgg 240  
tacccttggc ccctctatgg caatgagggc ttgggtggg caggatggct cctgtcaccc 300  
cgtggctctc ggcctagttg gggccccacg gaccccccgc gtaggtcg 360  
aaggtcatcg ataccctcac atgcggcttc gccgaccta tgggtacat tccgctcg 420  
ggcgccccctt tagggggcgc tgccagggcc ttggcgcatg gcgtccgggt tctggaagac 480  
ggcgtgaact atgcaacagg gaatttgccc ggttgcctt tctctatctt cctcttggct 540  
ttgctgtcctt gtttaaccat cccagcttc gct 573

<210> 110  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: S45

<400> 110  
atgagcacga atcctaaacc tcaaagacaa accaaacgta acaccaaccg ccgcccacag 60  
gacgtcaagt tcccgggtgg cggtcagatc gttgggtggag tttacctgtt gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcaca acctcgtgga 180  
cgccgacaac ctatccccaa ggctcgccgg cccgaggga gggcctgggc ccagcccg 240  
catccttggc ccctctatgg caatgagggc ttgggtggg cagggatggct cctgtcaccc 300  
cgtggctccc ggcctagttg gggcccccacg gaccccccggc gtaggtcgcg caatttgggt 360  
aaggtcatacg ataccctcac gtgcggcttc gccgaccta tgggtacat tccgctcg 420  
ggcgccccc tagggggcgc tgccagagcc ttggcgcatg gcgtccgggt tctggaggac 480  
ggcgtgaact atgcaacagg gaatctgccc ggttgcctt tctctatctt cctcttggct 540  
ctgctgtcct gttgaccat cccagcttcc gct 573

<210> 111  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: D1

<400> 111  
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60  
gacgtcaagt tcccggcg gggtcagatc gttgggtggag tttacctgtt gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcaca acctcgtgga 180  
aggcgacaac ctatccccaa ggctcgccgg cccgagggtg gggcctgggc tcagcccg 240  
tacccttggc ccctctatgg caacgagggc ttgggtggg cagggatggct cctgtcaccc 300  
cgccgctccc ggcctagttg gggcccccacc gaccccccggc gtaggtcgcg taatttgggt 360  
aaggtcatacg ataccctcac atgcggcttc gccgaccta tgggtacat cccgctcg 420  
ggcgccccc taggggtgc tgccagggcc ctggcgcatg gcgtccgggt tctggaggac 480  
ggcgtgaatt atgcaacagg gaatttgccc ggttgcctt tctctatctt cctcttggct 540  
ttgctgtcct gttgaccat cccagcttcc gct 573

<210> 112  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: US6

<400> 112  
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60  
gacgtcaagt tcccggcg gggtcagatc gttgggtggag tttacctgtt gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcaca acctcgtgga 180  
aggcgacaac ctatccccaa ggctcgccgg cccgagggtg gggcctgggc tcagcccg 240

tacccttggc ccctctatgg caacgagggc atggggtggg caggatggct cctgtcaccc 300  
cgtggctccc ggcctagttt gggcccccacg gaccccccggc gttaggtcgcg taatttgggt 360  
aaggtcatcg ataccctcac atgcggcttc gccgacctca tgggtacat tccgctcgtc 420  
ggcgccccc tagggggcgc tgccagggcc ttggcgcatg gcgtccgggt tctggaggac 480  
ggcgtgaact atgcaacagg gaacttgccc gtttgcctt tctctatctt cctcttggct 540  
ttgctgtcct gtttgcaccat tccagttcc gct 573

<210> 113  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: P10

<400> 113  
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gacgtcaagt tcccgggcgg tggtcagatc gttgggtggag tttacctgtt gccgcgcagg 120  
ggcccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180  
aggcgacaac ctatccccaa ggctcgccgg cccgagggca gggcctgggc tcagcccccggg 240  
tacccttggc ccctctatgg caatgagggc ttgggtggg caggatggct cctgtcaccc 300  
cgtggctctc ggcctagttt gggcccccacg gaccccccggc gttaggtcgcg taatttgggt 360  
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ggcgccccc tagggggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaggac 480  
ggcgtgaact atgcaacagg gaatctgccc gtttgcctt tctctatctt cctcttggct 540  
ttgctgtcct gcttgcaccat cccagcggtcc gct 573

<210> 114  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: DK1

<400> 114  
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gacgtcaagt tcccgggcgg tggtcagatc gttgggtggag tttacctgtt gccgcgcagg 120  
ggcccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180  
aggcgacaac ctatccccaa ggctcgccgg cccgagggca gggcctgggc tcagcccccggg 240  
tacccttggc ccctctatgg caatgagggc atgggtggg caggatggct cctgtcaccc 300  
cgcggctctc ggcctagttt gggcccccacg gaccccccggc gttaggtcgcg taatttgggt 360  
aaggtcatcg ataccctcac atgcggcttc gccgacctca tgggtacat tccgctcgtc 420  
ggcgccccc tagggggcgc tgccagggcc ctggcgcatg gcgtccgggt tctggaggac 480  
ggcgtgaact acgcaacagg gaatttgccc gtttgcctt tctctatctt cctcttggct 540  
ctgttgcctt gtttgcaccat cccagcttcc gcc 573

<210> 115  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: T10

<400> 115  
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gacgtcaagt tccccggcgg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180  
aggcgacagc ctatccccaa ggctcgccag cccgagggca gggcctgggc tcagccccgg 240  
tacccttggc ccctctatgg caatgagggc atggggatggg caggatggct cctgtcaccc 300  
cgtggctccc ggcctagttg gggccccaca gaccccccggc gtaggtcgcg taatttgggt 360  
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggatcat tccgctcgtc 420  
ggcgcccccc tagggggcgc tgccagggct ctggcacatg gtgtccgggt tctggaggac 480  
ggcgtgaact atgcaacagg gaatttgcgc ggttgctctt tttctatctt cctcttggct 540  
ctgctgtctt gtctgaccat cccagcttcc gct 573

<210> 116  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: SW2

<400> 116  
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gacgtcaagt tccccggcgg tggccagatc gttggtggag tttacctgtt gccgcgcagg 120  
ggccccccgg tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180  
aggcgacaaac ctatccccaa ggctcgccag cccgagggca gggcctgggc tcagccccgg 240  
tacccttggc ccctctatgg caatgagggc atggatggg caggatggct cctgtcccc 300  
cgcggctctc ggcctagttg gggccccact gaccccccggc gtaggtcgcg taatttgggt 360  
aaggtcatcg ataccctcac atgcggcttc gccgacctca tggggatcat tccgctcgtc 420  
ggcgcccccc tagggggcgc tgccagggcc ctggcgcatg gcgtccgggt cctggaggac 480  
ggcgtgaact atgcaacagg gaatctgccc ggttgctctt tttctatctt cctcttggct 540  
ttgctgtccct gtctgaccat cccagcttcc gct 573

<210> 117  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>

<223> Individual Isolate: IND3

<400> 117

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gacgtcaagt tcccggcgg tggccagatc gttggtggag tttacctgtt gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180  
aggcgacaac ctatccccaa ggctcgccgg cccgagggtta gggcctgggc tcagccccgg 240  
tacccttggc ccctctatgg caatgagggc ttggggtggg caggatggct cctgtcaccc 300  
cgcggttctc ggcctagttg gggccccaca gaccccccggc gtaggtcgcg taatttgggt 360  
aaagtcatcg ataccctcac atgcggcttc gccgaccta tgggtacat cccgctcgtc 420  
ggcgcccccc tagggggcgc tgccagggcc ctggcgcatg gcgtccgggt cctggaggac 480  
ggcgtgaact atgcaacagg gaacttgccc gttgctt tctctatctt ccttttagct 540  
ttgctatcct gttgaccat cccagcttcc gct 573

<210> 118

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: IND8

<400> 118

atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgccccacag 60  
gacgtcaagt tcccggcgg tggccagatc gttggtggag tttacctgtt gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180  
aggcgacaac ctatccccaa ggctcgccgg cccgagggtta gggcctgggc tcagccccgg 240  
cacccttggc ccctctatgg caatgagggc ttggggtggg caggatggct cctgtcaccc 300  
cgcggttctc ggcctagttg gggccccaca gaccccccggc gtaggtcgcg taatttgggt 360  
aaagtcatcg ataccctcac atgcggcttc gccgaccta tgggtacat cccgctcgtc 420  
ggcgcccccc tagggggtgc tgccagggcc ctggcgcatg gcgtccgggt cctggaggac 480  
ggcgtgaact atgcaacagg gaacttgccc gttgctt tctctatctt cctttggct 540  
ttgctatcct gttgaccgt cccagcttcc gct 573

<210> 119

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S9

<400> 119

atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgccccacag 60

gacgttaagt tcccgggcgg tggtcagatc gtcggtggag tttacctgtt gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcaactagg aagacttccg agcggtcgca acctcgtgga 180  
aggcgacaac ctatccccaa ggctcgccat cccgagggca gggcctgggc tcagccccgg 240  
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aaggtcatcg ataccctcac atgcggcttt gccgaccta tgggtacat tccgctcgtc 420  
ggcgccccc tagggggcgc tgccagggct ctggcgcatg gcgtccgggt tctggaggac 480  
ggcgtgaact atgcaacagg gaacctcccc ggttgctt tctctatctt ccttctggct 540  
ttgctgtcct gtttgaccat cccagttcc gct 573

<210> 120

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: HK3

<400> 120

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gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcgaccagg aagacttcg agcggtcgca acctcgtgga 180  
aggcgacaac ctatccccaa ggctcgccaa cccgagggca ggacctggc tcagccccgg 240  
tacccttggc ccctctatgg caacgagggc atgggtggg cagggatggct cctgtcaccc 300  
cgcggctctc ggcctaattg gggcccccacg gaccccccggc gtaggtcgcg caatttgggt 360  
aaggtcatcg ataccctcac gtgcggcttc gccgaccta tgggtacat cccgctcgtc 420  
ggcgccccc tagggggcgt tgccagagcc ttggcacatg gtgtccgggt tctggaggac 480  
ggcgtgaact atgcaacagg gaatttaccc ggttgctt tctctatctt ccttctggct 540  
ttgctgtcct gtttgaccac cccagttcc gct 573

<210> 121

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: HK5

<400> 121

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gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcgaccagg aagacttccg agcggtcgca acctcgtgga 180  
aggcgacaac ctatccccaa ggctcgccga cccgagggca ggacctggc tcagccccgg 240  
tacccttggc ccctctatgg caatgagggc atgggtggg cagggatggct cctgtcaccc 300  
catggctctc ggcctagttg gggcccccacg gaccccccggc gtaggtcgcg taatttgggt 360  
aaggtcatcg ataccctcac gtgcggcttc gccgaccta tgggtacat cccgctcgtc 420

ggcgccccc tagggggcgt tgccagagcc ctggcacacg gtgtccgggt tctggaggac 480  
ggcgtgaact acgcaacagg gaatataccc ggttgctctt tctctatctt cctttggct 540  
ttgctgtcct gtctgaccac cccagttcc gct 573

<210> 122  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: HK4

<400> 122  
atgagcacga atcctaaacc tcaaagaaa accaaacgta acaccaaccg ccgcccacag 60  
gacgttaagt tcccgggcgg tggccagatc gtcggtggag tttacctgtt gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180  
aggcgacaac ctatccccaa ggctcgccaa cccgagggca ggacctggc tcagccccc 240  
tacccttggc ccctctatgg caatgagggc atgggttggg caggtggct cctgtcaccc 300  
cgcggtctc ggcctagttg gggcccccacg gaccccccggc gtaggtcgca caatttgggt 360  
aaggtcatcg ataccctcac atgcggcttc gccgaccta tgggttacat tccgctcgtc 420  
ggcgccccc tagggggcgt tgccagagcc ctggcacatg gtgtccgggt tggaggac 480  
ggcgtgaact atgcaacagg gaatttgcctt ggttgctctt tctctatctt cctttggct 540  
ttgctgtcctt gtttggccat cccagttcc gct 573

<210> 123  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: P8

<400> 123  
atgagcacga ctcctaaacc tcaaagaaaa accaaacgta acaccagccg ccgcccacag 60  
gacgttaagt tcccgggcgg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcgatcgca acctcgtggc 180  
aggcgacaac ctatccccaa ggctcgccgg cccgagggta gggcctggc tcagccccc 240  
cacccttggc ccctctatgc caatgagggc ttgggttggg cggatggct cctgtcaccc 300  
cgcggtctc ggcctagttg gggcccccacg gaccccccggc gtaggtcgca caatttgggt 360  
aaggtcatcg ataccctcac atgcggcttc gccgaccta tgggttacat tccgctcgtc 420  
ggcgccccc tagggggcgt tgccagggcc ctggcgcatg gcttccgggt tggaggac 480  
ggcgtgaact atgcaacagg gaatctgcctt ggttgctctt tctctatctt cctttggct 540  
ttgctgtcctt gtttggccat cccagttcc gct 573

<210> 124

<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: T3

<400> 124  
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag 60  
gacgttaagt tcccggcg tggtcagatc gttggtggag tttacctgtt gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga 180  
aggcgacaac ctatccccaa ggctcgccgg cccgagggtta gggcctgggc tcagcccg 240  
tacccttggc ccctctatgg cgacgaggggc atggggtggg cagggatggct cctgtcaccc 300  
cgcggtccc ggcctaattg gggcccccaca gaccccccgc gtaggtcgcg taatctgggt 360  
aaggtcatcg ataccctcac atgcggcttc gccgaccta tggggtacat tccgctcg 420  
ggcgctccct tagggggcgt tgccagggcc ctggcgcatg gcgtccgggt tctggaggac 480  
ggcgtgaatt acgcaacagg gaatttgctt gttgctctt tctctatctt cctcttggct 540  
ttgctgtcct gcttgaccat cccagcttcc gct 573

<210> 125  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: T4

<400> 125  
atgagcacaa atcctaaacc tcaaagaaaa accaaaagaa acaccaaccg tcgcccacag 60  
gacgttaagt tcccggcg tggccagatc gttggcggag tatacttgcgtt gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcgacaagg aagacttccg agcgatccca gcccacgtggg 180  
aggcgccagc ccatccccaa agatcgccgc tccactggca agtcctgggg aaaaccagga 240  
tatcccttggc ccctgtatgg gaatgaggga ctcggctggg cagggatggct cctgtccccc 300  
cgagggtccc gtcctccctg gggcccaat gaccccccgc atagggtcgcg caacgtgggt 360  
aaggtcatcg ataccctaac gtgcagccctt gccgaccta tggggtacgt ccccgctcgta 420  
ggcgccccgt tgggtggcgt cgccagagct ctcgcgcata ggcgtgagagt cctggaggac 480  
ggggtaatt atgcaacagg gaacttaccc gtttgctcct tttctatccc cttgctggcc 540  
ctactgtcct gcatcaccat tccagtcctcc gct 573

<210> 126  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: US10

<400> 126

atgagcacaa atcctaaacc tcaaagaaaa accaaaagaa acactaaccg tcgcccacaa 60  
gacgttaagt ttccgggcgg cggccagatc gttggcggag tataacttgtt gccgcgcagg 120  
ggcccccaggt tgggtgtgcg cgcgacaagg aagacttcgg agcggtccca gccacgtggg 180  
aggcgccagc ccatccccaa agatcggcgc cccactggca agtcctgggg aaaaccagga 240  
tacccttggc ccctatatgg gaatgagggg ctcggctggg caggatggct cctgtccccc 300  
cgaggttccc gtccctctt gggcccccact gatccccggc ataggtcgcg caacgtgggt 360  
aaggtcatcg ataccctaac gtgcggcttt gccgaccta tgggatacat ccccgtcgtg 420  
ggcgctccgc ttggtggcgt cgccagagct ctcgcgcata gctgtggggc 480  
ggggtaatt atgcaacagg gaacttaccc ggttgcctt tttctatctt cttgctggcc 540  
ttactgtcct gcatcaccat tccagtctct gct 573

<210> 127

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: T9

<400> 127

atgagcacaa atccaaaacc ccaaagaaaa accataagaa acaccaaccg tcgcccacag 60  
gacgttaagt tcccgggcgg cggccagatc gttggcggag tataacttgtt gccgcgcagg 120  
ggcccttaggt tgggtgtgcg cacgacaagg aagacttcgg agcggtccca gccacgtggg 180  
aggcgccagc ccatccccaa agatcggcgc tccactggca agtcctgggg aaaaccagga 240  
tacccttggc ctctatatgg gaatgagggg ctcggctggg cgggatggct cctgtccccc 300  
cgaggttccc gtccctctt gggcccccagt gacccccggc ataggtcgcg caacgtgggt 360  
aaggtcatcg ataccctaac gtgcggcttt gccgaccta tgggatcacat ccccgtcgt 420  
ggcgccccgc ttggtggcgt tgccagagct ctcgcgcacg gctgtggggc 480  
ggggtaatt atgcaacagg gaacctaccc ggttgcctt tttctatctt cttgctggcc 540  
ctactgtcct gcatcaccac tccggcctct gct 573

<210> 128

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: T2

<400> 128

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gacgttaagt ttccgggcgg cggccagatc gttggcggag tataacttgcg gccgcgcagg 120  
ggcccccaggt tgggtgtgcg cgcgacaagg aagacttcgg agcggtccca gcctcggt 180  
aggcgccagc ccatccctaa agatcggcgc tccactggca agtcctgggg aaaaccagga 240

taccctggc ccctgtatgg gaatgagggg ctcggctggg cagcatggct cctgtcccc 300  
cgagggtctc gtccctcttgg gggcccaat gaccccccgc ataggtcgcg caatgtgggt 360  
aaagtcatcg ataccctaacatgtgcggctt gccgacctca tgggtacat ccccgctcgta 420  
ggcgccccgc ttgggtgggtcgccagagcttgcgcatg gcgtgagagt cctggaggac 480  
ggagttaatt atgcaacagg taacttaccc ggttgctcct tttctatctt cttgctagcc 540  
ctgctgtcct gcatcaactat tccgggttca gct 573

<210> 129  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: T8

<400> 129  
atagcacaa atcctaaacc tcaaagaaaa accaaaagaa acacaaacccg ccgcccacag 60  
gacgtcaagt tcccgggtgg cggccagatc gttggcggag tttacttgcgt gccgcgcagg 120  
ggccctaggt tgggtgtgcg cgcgacaagg aagacttccg agcgatccca gccgcgtggg 180  
agacgcccgc ccatcccgaa agatcggcgc tccaccggca agtcctgggg aaaaccagga 240  
tatccttggc ctcttacgg aaacgagggc tgccgttggg caggttgctt cctgtcccc 300  
cgccgggtctc gtcctacttg gggcccaact gaccccccgc atagatcacg taatttggc 360  
agagtcatcg ataccattac atgtggttt gccgacctca tgggtacat ccctgtcggt 420  
ggcgccccgg tcggaggcgct cgccagagct ctggcacatg gtgttagggt cctggaagac 480  
gggataaaact atgcaacagg gaatttgctt ggttgctcct tttctatctt cttgcttgct 540  
cttctgtcat gcttcacagt gccagtgtct gca 573

<210> 130  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: US1

<400> 130  
atagcacaa atcctaaacc tcaaagaaaa accaaaagaa acacaaacccg ccgcccacag 60  
gacgtcaagt tcccgggtgg cggtcagatc gttggcggag tttacttgcgt gccgcgcagg 120  
ggcccccaggt tgggtgtgcg cgcgacaagg aagacttccg agcgatccca gccgcgtggg 180  
agacgcccgc ccatcccgaa agatcggcgc tccaccggca agtcctgggg aaagccagga 240  
tatccttggc ctcttacgg aaacgagggc tgccgttggg caggttgctt cctgtcccc 300  
cgccgggtctc gtcctacttg gggcccaact gaccccccgc acagatcacg taacttggc 360  
aagggtcatcg ataccattac gtgtggttt gccgacctca tgggtacat ccctgtcggt 420  
ggcgccccgg tcggaggcgct cgccagagct ctggcacacg gtgttagggt cctggaagac 480  
gggataaaatt acgcaacagg gaatctgcct ggttgctcct tttctatctt cttacttgct 540  
cttctgtcggt gcccacacgt gccgggtgtct gca 573

<210> 131  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: DK11

<400> 131  
atgagcacaa atcctaaacc tcaaagaaaa accaaaagaa atacaaacccg ccgccccacag 60  
gacgttaagt tcccgggtgg cggccagatc gttggcggag tttacttgct gccgcgcagg 120  
ggccccaggt tgggtgtgcg cacaagg aagacttccg agcgatccca gccgcgtggg 180  
agacgccagc ccatcccgaa agatcggcgc tccaccggca agccctgggg aaagccagga 240  
tatccttggc ccctgtatgg aaacgagggc tgcggctggg caggttggtc cctgtccccc 300  
cgccgggtctc atcctaattt gggcccccact gaccccccgc ataaatcacg caatttgggt 360  
aaagtcatcg acaccattac gtgtggttt gccgacctca tggggtacat ccctgtcgtc 420  
ggcgccccgg tcggaggcgt cgccagagct ctggcacacg gtgttagagt cctggaagac 480  
gggataaaatt acgcaacagg gaatctgcct ggttgctt tttctatctt cttacttgct 540  
cttctgtcat gctgcacagt gccagtgtct gcg 573

<210> 132  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: SW3

<400> 132  
atgagcacaa atcctaaacc tcaaagaaaa accaaaagaa atacaaacccg ccgccccacag 60  
gacgttaagt tcccgggtgg cggccagatc gttggcggag tttacttgct gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcacaagg aagacttccg agcgatccca gccgcgtggg 180  
agacgccagc ccatcccgaa agatcggcgc tccaccggca agtcctgggg aaagccagga 240  
tatccttggc ccctgtatgg aaacgagggc tgcggctggg caggttggtc cctgtccccc 300  
cgccgggtctc atcctaattt gggcccccact gaccccccgc atagatcacg caatttgggc 360  
aaagtcatcg acaccattac gtgtggttt gccgacctca tggggtacat ccctgtcggt 420  
ggcgccccgg tcggaggcgt cgccagagct ctggcacacg gtgttagagt cctggaagac 480  
gggataaaatt acgcaacagg gaatctgcct ggttgctt tttctatctt cttacttgct 540  
cttctgtcgt gttcacagt gccagtgtct gcg 573

<210> 133  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>

<223> Individual Isolate: DK8

<400> 133

atgagcacaa atcctaaacc tcaaagaaaa accaaaagaa acacaaaccg ccgcccacag 60  
gacgttaagt tcccgggtgg cgccagatc gttggcggag tttacttgct gccgcgcagg 120  
ggcccccaggt tgggtgtgcg cgcgacaagg aagtcttccg agcgatccca gcccgtggg 180  
aggcgccagc ccattccgaa agatcggcgc tccaccggca agtcctgggg aaaaccggga 240  
tatccttggc ccctgtatgg aaacgagggc tgccgctggg caggttgct cctgtccccc 300  
cgccgggtctc gtcctacttg gggcccccact gaccccccgc atagatcacg caatttggc 360  
aaagtcatcg acaccattac gtgtggttt gccgaccta tgggttacat ccctgtcggt 420  
ggcgccccgg ttggaggcg tgcgcagact ctggcacacg gtgttagggt cctggaagac 480  
gggataaaatt acgcaacagg gaatttgccct ggttgctt tttctatctt cttgcttgct 540  
cttctgtcgt gctgacagt gccagtgtct gcg 573

<210> 134

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S83

<400> 134

atgagcacaa atcctaaacc tcaaagaaaa accaaaagaa acactaaccg ccgcccacag 60  
gacgtcaagt tcccgggcgg tggccagatc gttggcggag tataacttgct gccgcgcagg 120  
ggcccgagat tgggtgtgcg cgcgacgagg aaaacttccg aacggtccca gccacgtggg 180  
aggcgccagc ccattccctaa agatcggcgc accactggca agtcctgggg aaggccagga 240  
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cgccgggtctc gcccttcatg gggcccccacc gaccccccgc ataaatcgcg caacttgggt 360  
aaggcatcg ataccctaac gtgcggttt gccgaccta tgggttacat acccgctcggt 420  
ggcgctcccg ttggcggcg tgcgcagacg ctcggccatg gggtagggt tctggaggac 480  
gggataaaatt atgcaacggg gaatttgccc ggttgctt tctctatctt tctcttggcc 540  
cttctgtctt gcatctctgt gccagtttcc gcc 573

<210> 135

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: HK10

<400> 135

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gacgttaagt tcccgggtgg cggacagatc gttggtgag tatacgtgtt gccgcgcagg 120  
ggcccacat tgggtgtgcg cgacgcgcgt aaaacttctg aacggtcga gcctcgccga 180  
cgacgcacgc ctatccccaa ggccgcgtcg agcgaaggcc ggtcctggc tcagccccc 240  
tacccttggc ccctctatgg taacgagggc tgccgggtggg cagggatggct cctgtcccc 300  
cgccgctccc gtccatcttggc gggcccaaacc gaccccccggc gacggccccgg 360  
aaagtcatcg atacccttac gtgcggattc gccgacctca tgggtacat cccgctcgtc 420  
ggcgctcccg taggaggcgt cgcaagagcc ctcgcgcattg gcgtgagggc cttgaagac 480  
gggataaaatt tcgcaacagg gaacttgccc ggttgcctt tttctatctt cttcttgct 540  
ctgttctctt gcttaattca tccagcagct agt 573

<210> 136

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S52

<400> 136

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gacgttaagt tcccgggtgg cggacagatc gttggtgag tatacgtgtt gccgcgcagg 120  
ggcccacat tgggtgtgcg cgacgcgcgt aaaacttctg aacggtcaca gcctcgccga 180  
cgacgcacgc ctatccccaa ggccgcgtcg agcgaaggcc ggtcctggc tcagccccc 240  
tacccttggc ccctctatgg taatgagggc tgccgggtggg cagggatggct cctgtcccc 300  
cgccgctccc gtccatcttggc gggcccaaacc gaccccccggc ggaggtccccgg 360  
aaagtcatcg atacccttac gtgcggattc gccgacctca tgggtacat cccgctcgtc 420  
ggcgctcccg taggaggcgt cgcaagagcc ctcgcgcattg gcgtgagggc cttgaagac 480  
gggataaaatt ttgcaacagg gaacttgccc ggttgcctt tttctatctt cttcttgct 540  
ctgttctctt gcttagttca tccgcagct agt 573

<210> 137

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: S2

<400> 137

atgagcacac ttcctaaacc tcaaagaaaa accaaaagaa acaccatccg tcgcccacag 60  
gacatcaagt tcccgggtgg cggacagatc gttggtgag tatacgtgtt gccgcgcagg 120  
ggcccacat tgggtgtgcg cgacgcgcgt aaaacttctg aacggtcaca gcctcgccga 180  
cgacgcacgc ctatccccaa ggccgcgtcg agcgaaggcc gatcctggc tcagccccc 240  
tacccttggc ccctctatgg taacgagggc tgccgggtggg cagggatggct cctgtcccc 300  
cgccgctccc gtccatcttggc gggcccaaacc gaccccccggc ggaggtccccgg 360  
aaagtcatcg atacccttac gtgcggcttc gccgacctca tgggtacat cccgctcgtc 420

ggcgctcccg taggaggcgt cgcaagagcc ctgcgcgtgcgtgaggc cttgaagac 480  
ggataaaatt ttgcaacagg gaacttgccc gttgtcttttcttatctt ctttttgcc 540  
ctgttcttttctt gcttaattca tccagcagct agt 573

<210> 138  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: DK12

<400> 138  
atagcacac ttcctaaacc tcaaagaaaa accaaaagaa acaccatccg tcgcccacag 60  
gacgtcaagt tcccgggtgg cggacagatc gttgggtggag tatacgtgtt gccgcgcagg 120  
ggcccacgt tgggtgtgcg cgcgacgcgt aaaacttctg aacggtcaca gcctcgccga 180  
cgcgacacgc ctatccccaa ggcgcgtcg agcgaaggcc ggtcctgggc tcagcctggg 240  
tacccttggc ccctctatgg taacgagggc tgccgggtggg cagggtggtc cctgtcccc 300  
cgcgctccc gtccatcttgg gggcccaaacc gaccccccggc ggaggtcccc caatttgggt 360  
aaggtcatcg ataccctcac gtgcggattc gccgacctca tgggtacat cccgctcgtc 420  
ggcgctctgt tagggggcgt cgcaagagcc ctgcgcgtgcgtgaggc cttgaagac 480  
ggataaaatt tcgcaacagg gaacttgccc gttgtcttttcttatctt ctttttgcc 540  
ctgttcttttctt gcttaattca tccagcagct agt 573

<210> 139  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: Z4

<400> 139  
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ggccccaggt tgggtgtgcg cgcgactcga aagacttcgg agcggtcga acctcggtggc 180  
aggcgtcaac ctatccccaa ggcgcgcacccg ccagaggcga gatcctggc gcagccccggg 240  
tacccttggc ccctctatgg caatgaggc tgccgggtggg cagggtggtc cctgtctt 300  
cgcgctctc ggccatcttgg gggcccaaacc gatccccggc ggagatcgca caatctgggt 360  
aaggtcatcg ataccctcac gtgcggcttc gccgacctca tgggatacat cccgatcggt 420  
ggcgccccccg tggggggcgt cgccaggcgt ctggcgcatg gcgtcaggcc tggggaggac 480  
gggattaact atgcaacagg gaatcttccc gttgtcttttcttatctt ctttttgcc 540  
cttctttcgt gcctcaactgt tccagcgtcg gct 573

<210> 140

<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: Z8

<400> 140  
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ggccccaggt tgggtgtcg cgcaactcg aagacttcgg agcggtcgca acctcggtgc 180  
aggcgtcagc ctatccccaa ggcacgtcg tccgagggtt ggtcctggc tcagcccg 240  
tacccatggc ctcttacgg taatgaaggc tgtgggtggc caggttggtc cctgtcccc 300  
cgccgctctc gaccgtctt gggcccaaat gatccccggc ggaggtcgca caatttgggt 360  
aaggcatcg ataccctcac gtgcggcttc gccgaccta tggatacat cccgctcg 420  
ggcgccccag taggaggcg tggccagagcc ctggcgcatg gcgtcagggc tggaggac 480  
gggatcaact atgcaacagg gaaccttcctt ggttgctt tctctatctt cctcttgca 540  
cttctctcggt gcctaaccgt cccagcgctt gct 573

<210> 141  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: Z1

<400> 141  
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gatgtgaaat tcccggcg cgccagatc gttggcgag tttacttgc gccgcgcagg 120  
ggccccccgt tgggtgtcg cgcaactcg aagacttcgg agcggtcaca acctcggtgc 180  
aggcgtcagc ctatccccaa ggcacgtcg tccgagggtt ggtcctggc tcagcccg 240  
tacccatggc cccttacgg caatgaggc tgtgggtggc caggttggtc cctgtcccc 300  
cgccggttcca gggccat gatccccggc gtggatcccg taatctgggt 360  
aaaggcatcg ataccctcac gtgtggcttc gccgaccta tggatacat tccgctcgta 420  
ggcgccccctg tgggtggcg tggccagggcc ctggcgcatg gcgtcagggc cgtggaggac 480  
gggatcaact acgcaacagg gaaccttcctt ggttgctt tctctatctt tcttcttgca 540  
cttctctcggt gcctgacaac accagcatctt gcc 573

<210> 142  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: Z5

<400> 142  
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgccccatg 60  
gatgtaaaat tcccgggtgg tggtcagatc gttggcggag tttacttgtt gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcgactcgg aagacttcgg agcggtcgca acctcgccgc 180  
aggcgtcagc ctatccccca ggcacgtcgg tccgagggca ggtcctgggc tcagccccgg 240  
tacccttggc ctctttatgg caatgagggc tgtgggtggg cagggtggt cctgtcccc 300  
cgccgatctc ggccatcttggcccaaaat gatccccggc gtaggtcccg caatctgggt 360  
aaggtcatcg ataccctgac gtgtggcttc gccgacctca tgggatacat tccgctcgac 420  
ggcgccccag taggtggcgt cgccagggcc ttggcgcatg gcgtcagggc cctggaggac 480  
ggaatcaact atgcaacagg gaatcttcctt ggttgcctt tttctatctt cctacttgca 540  
ctttctcggt gcttgcacaac accggcatcc gct 573

<210> 143  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: Z6

<400> 143  
atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgccccatg 60  
gacgttaagt tcccgggtgg tggccagatc gttggcggag tttacttgtt gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcgacttagg aagacttcgg agcggtcgca acctcggtgg 180  
agacgcccagc ctatccccaa ggcacgtcga tctgagggaa ggtcctgggc tcagccccgg 240  
tatccatggc ctctttacgg taatgagggt tgccgggtggg cgggatggct cctgtcaccc 300  
cgtggctctc gaccgtcttggcccaaaat gatccccggc gaaggtcccg caacttgggt 360  
aaggtcatcg atactctaacttgcgttgcgcatacat tgggatacat cccgctcgta 420  
ggcgccccccg tgggcggcgt cgccagggcc ctggcacatg gtgttagggc tgtggaggac 480  
ggaatcaatt atgcaacagg gaatcttcctt ggttgcctt tctctatctt cctcttggca 540  
cttcttcgttgccttaactgt tcccacctcg gct 573

<210> 144  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: Z7

<400> 144  
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gacgttaagt tcccgggcgg tggccagatc gttggcggag tttacttgtt gccgcgcagg 120  
ggccccagat tgggtgtgcg cacaacttagg aagacttcgg agcggtcgca acctcggtgg 180  
agacgtcagc ctatccccaa ggcacgtcga tctgagggaa ggtcctgggc tcaacccgg 240

tacccatggc ctcttacgg taacgagggt tgcgggtggg caggtggct cttgtcaccc 300  
cgtggctctc gaccgtctt gggccaaat gatccccggc gaaggtcccg caacttgggt 360  
aaggtcatcg ataccctaac ctgcggctt gccgaccta tggatacat cccgctcgta 420  
ggcgcccccg tgggcggcgt cgccagggcc ctgcgcata gctgttagggc tctggaggac 480  
gggattaatt atgcaacagg gaacttccc gttgtctt ttctatctt cctcttggca 540  
cttcttcgt gcctgactgt tcccgctcg gcc 573

<210> 145  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: DK13

<400> 145  
atagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccggccaaatg 60  
gacgttaagt tcccggtgg cggccagatc gttggcggag tttacttgg tccgcgcagg 120  
ggcccttagat tgggtgtgcg cgcgactagg aagacttcgg agcggtcgca acctcggtgg 180  
aggcgccagc ctatccccaa ggccgcggccaa ctgcgggtt ggtcctggc tcagcctggg 240  
tacccctggc cccttacgg caatgaggc tgcgggtggg cggatggct cctgtcaccc 300  
cgtggctctc ggccgtctt gggcccgaaat gatccccggc ggagggtcccg caacttgggt 360  
aaggtcatcg ataccctaac ttgcggcttc gccgaccta tggatacat cccggtcgta 420  
ggcgcccccg tgggtggcgt cgccagggcc ctggcgcata gctgtcaggct tctggaggac 480  
ggggtcaatt atgcaacagg gaatcttccc gttgtctt ttctatctt cctcttggca 540  
ctgcttcgt gcctgactgt tcccgcttcg gcc 573

<210> 146  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: SA4

<400> 146  
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ggcccttaggt tgggtgtgcg cgcgacttcgg aagacttcgg aacggtcgca accccgtggg 180  
cgccgcggc ctatccccaa ggccgcggccaa cccacggggcc ggtcctgggg tcaacccggg 240  
tacccctggc cccttacgc caatgaggc ctgcgggtggg cagggtgttt gctctcccc 300  
cgaggctctc ggcctaattt gggcccaat gaccccccggc gaaagtgcgc caatttgggt 360  
aaggtcatcg ataccctaac gtgcggattc gccgaccta tgggtacat cccgctcgta 420  
ggcgcccccg ttggggcgt cgcaaggggcc ctgcacatg gtgtgagggt tcttgaggac 480  
ggggttaact atgcaacggg gaatttgcgg gttgtctt ttctatctt tacccttgca 540  
cttcttcgt gcctgaccgt cccggcctct gca 573

<210> 147  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: SA5

<400> 147  
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gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacttgtt gccgcgcagg 120  
ggcccttagat tgggtgtgcg cgcgactcgg aagacttcag aacggtcgca accccgtggg 180  
cgcgccacgc ctattccaa ggcgcgccaa cccacgggcc ggtcctgggg tcaacccggg 240  
tacccttggc cccttacgc caatgagggc ctcgggtggg cagggtggtt gctctccccc 300  
cgaggctctc ggcctaattg gggcccaat gaccccccggc gaaaatcgcg caatttgggt 360  
aaggtcatcg ataccctaac gtgcggattc gccgacctca tgggtacat cccgctcgta 420  
ggcgcccccg ttggggcgt cgcaagggcc ctcgcacatg gtgtgaggggt tcttgaggac 480  
gggttaaact atgcaacagg gaatttgccc gtttgctt tctctatctt tattttttttt 540  
cttctctcgt gcttgaccgt cccagcctct gca 573

<210> 148  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: SA7

<400> 148  
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ggcccttaggt tgggtgtgcg cgcgactcgg aagacttcag aacggtcgca accccgtggg 180  
cgcgccacgc ctattccaa ggcgcgccaa cccacgggcc ggtcctgggg tcaacccggg 240  
tacccttggc cccttacgc caatgagggc ctcgggtggg cagggtggtt gctctccccc 300  
cgaggctctc ggcctaattg gggcccaat gaccccccggc gaaagtgcgc caatttgggt 360  
aaggtcatcg acaccctaac atgcggattc gccgacctca tgggtacat cccgctcgta 420  
ggcgcccccg ttggggcgt cgcaagggct ctcgcacacg gtgtgaggggt tcttgaggac 480  
gggttaaatt acgcaacagg gaatctgccc gtttgctt tctctatctt tattttttttt 540  
cttctctcgt gccttgaccgt cccagcctcc gca 573

<210> 149  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>

<223> Individual Isolate: SA1

<400> 149

atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaacct ccgcccacag 60  
gacgtcaagt tcccggcg tggtcagatc gttggtggag tttacttgtt gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcgactcg aagacttcgg aacggtcgca accccgtggg 180  
cggcgccagc ctattccaa ggcgcccaa cccacggcc ggtcctgggg tcaacccggg 240  
tacccttggc cccttacgc caatgagggc ctcgggtggg cagggtggtt gctctcccc 300  
cgaggctctc ggcctaattg gggcccaat gaccccccggc ggaagtcgca caatttgggt 360  
aaggtcatcg ataccctaac gtgcggattc gccgaccta tgggtacat cccgctcgta 420  
ggcgcccccg ttggggcggt cgcaagggt ctcgcacacg gtgtgaggggt tcttgaggac 480  
ggggtaaact acgcaacagg gaatttgccc gttgctt tctctatctt tatttttgca 540  
cttctttcat gtctgatcat cccggcctct gca 573

<210> 150

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA3

<400> 150

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gacgtcaagt tcccggcg tggtcagatc gttggtggag tttacttgtt gccgcgcagg 120  
ggccccaggt tgggtgtgcg cgcgactcg aagacttcag aacggtcgca accccgtgga 180  
cggcgccagc ctattccaa ggctcgccag cccacggcc ggtcctgggg tcaacccggg 240  
tacccttggc cccttacgc caatgagggc ctcgagtggg cagggtggtt gctctcccc 300  
cgaggctctc ggcctagttt gggcccaac gaccccccggc gaaatcgca caatttgggt 360  
aaggtcatcg ataccctaac gtgcggattc gccgatcta tgggtacat cccgctcgta 420  
ggcgcccccg ttggggcggt cgcaagggt ctcgcacatg gtgtgaggggt tcttgaggac 480  
ggggtaaact acgcaacagg gaatttaccc gttgctt tctctatctt tatttttgca 540  
cttctttcat gcctgaccgt cccggcctct gca 573

<210> 151

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA13

<400> 151

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gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacttgtt gccgcgcagg 120  
ggccctaggt tgggtgtcg cgcaactcgg aagacttcag aacggtcgca accccgtgga 180  
cggcgtcagc ctatcccaa ggccgcggcag cccacgggc ggtcctgggg tcaacccggg 240  
tacccttggc cccttatgc caatgagggc ctcgggtggg cagggtggtt gctctcccc 300  
cgaggctctc ggcctaattt gggcccaat gaccccccggc gaaatcgcg caacttgggt 360  
aaggtcatcg ataccctgac gtgcggattc gccgaccta tgggtacat cccgctcgta 420  
ggcgcccccg ttggggcgt cgcaagggtt ctcgcacacg gtgtgagggc ctttgaggac 480  
gggttaaact atgcaacagg gaatttaccc ggttgctt tcttatctt tattcttgca 540  
cttcttcat gcctgactgt cccgacctct gca 573

<210> 152

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA6

<400> 152

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gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacttgtt gccgcgcagg 120  
ggccctcgta tgggtgtcg cgcaactcgg aagacttcag aacggtcgca accccgtgga 180  
cggcgtcagc ctatcccaa ggccgcggcag cccacgggc ggtcctgggg tcaacccggg 240  
tacccttggc cccttatgc caatgagggc ctcgggtggg cagggtggtt gctctcccc 300  
cgaggctctc ggcctaattt gggcccaat gaccccccggc gaaatcgcg caatttgggt 360  
aaggtcatcg ataccctaac gtgcggattc gccgaccta tgggtacat cccgctcgta 420  
ggcgcccccg ttggggcgt cgcaagggtt ctcgcacacg gtgtgagggc ctttgaggac 480  
gggttaaact atgcaacagg gaatttgcgg ggttgctt tcttatctt tattcttgca 540  
cttctctcgta gcctaaccgt ccctgcctct gca 573

<210> 153

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<223> Individual Isolate: SA11

<400> 153

atgagcacga atcctaaacc tcaaagaaaa accaaaagaa acaccaacccg ccgccccacag 60  
gacgtcaagt tcccgggcgg tggtcagatc gttggtggag tttacttgtt gccgcgcagg 120  
ggccctaggt tgggtgtcg cgcaactcgg aagacttcag aacggtcgca accccgtggg 180  
cggcgtcagc ctatcccaa ggccgcggcag cccacgggc ggtcctgggg tcaacccggg 240  
tacccttggc cccttatgc caatgagggc ctcgggtggg cagggtggtt gctctcccc 300  
cgaggctctc ggcctaactg gggcccaat gaccccccggc gaagatcgcg caatttgggc 360  
aaggtcatcg ataccctaac gtgcggattc gccgaccta tgggtacat cccgctcgta 420

ggcgcccccg ttggggcggt cgcaagggcc ctcgcacacg gtgtgagagc tcttgaggac 480  
gggttaaatt atgcaacagg gaatcttccc gttgctctt tctccatctt tattcttgca 540  
cttctctcggt gcttgaccgt cccggccact gca 573

<210> 154  
<211> 573  
<212> DNA  
<213> Homo sapiens

<220>  
<223> Individual Isolate: HK2

<400> 154  
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ggcccccgggt tgggtgtgcg cgcgacgaga aagacttccg agcgatccca gcccagagggc 180  
aggcgccaaac ctataccaaa ggcgcgcccag ccccaggca ggcactggc tcagcccgga 240  
tacccttggc ctctttatgg aaacgagggc tgggggtggg caggttggct cctgtcccc 300  
cgcgctccc ggccacattt gggccccaat gaccccccggc gtcgatcccg gaatttgggt 360  
aaggtcatcg ataccctaac gtgtgggttc gccgatctca tggggtacat tcccgctgt 420  
ggcgccctt tggggccgggt cgcgctgcg ctcgcacatg gcgtgagggc aatcgaggac 480  
gggatcaatt atgcaacagg gaatctcccc gttgctctt tctctatctt cctttggca 540  
ctactctcggt gcctcacaac gccagcttcg gct 573

<210> 155  
<211> 191  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: DK7

<400> 155  
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Pro Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly

65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala  
180 185 190

<210> 156

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: US11

<400> 156

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala  
180 185 190

<210> 157

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S14

<400> 157

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala  
180 185 190

<210> 158

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SW1

<400> 158

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro

100	105	110
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys		
115	120	125
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu		
130	135	140
Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp		
145	150	155
Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile		
165	170	175
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala		
180	185	190
<210> 159		
<211> 191		
<212> PRT		
<213> Homo sapiens		
<220>		
<223> Individual Isolate: S18		
<400> 159		
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn		
1	5	10
15		
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly		
20	25	30
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala		
35	40	45
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro		
50	55	60
Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly		
65	70	75
80		
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp		
85	90	95
Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro		
100	105	110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala  
180 185 190

<210> 160

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DR4

<400> 160

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala  
180 185 190

<210> 161

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA10

<400> 161

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu

130

135

140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Pro Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala  
180 185 190

<210> 162

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S45

<400> 162

Met Ser Thr Asn Pro Lys Pro Gln Arg Ala Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly  
65 70 75 80

His Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala  
180 185 190

<210> 163

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: D1

<400> 163

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala  
180 185 190

<210> 164

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: US6

<400> 164

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile

165

170

175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala  
180 185 190

<210> 165

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: P10

<400> 165

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala  
180 185 190

<210> 166

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK1

<400> 166

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala  
180 185 190

<210> 167  
<211> 191  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: T10

<400> 167  
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15  
  
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30  
  
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45  
  
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60  
  
Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly  
65 70 75 80  
  
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp  
85 90 95  
  
Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro  
100 105 110  
  
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125  
  
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140  
  
Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160  
  
Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175  
  
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala  
180 185 190

<210> 168  
<211> 191  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: SW2

<400> 168  
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15  
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30  
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45  
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60  
Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly  
65 70 75 80  
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp  
85 90 95  
Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro  
100 105 110  
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125  
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140  
Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160  
Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175  
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala  
180 185 190

<210> 169  
<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: IND3

<400> 169

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala  
180 185 190

<210> 170

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: IND8

<400> 170

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly  
65 70 75 80

His Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala  
180 185 190

<210> 171

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S9

<400> 171

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg His Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala  
180 185 190

<210> 172

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK3

<400> 172

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Thr Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Thr Pro Ala Ser Ala  
180 185 190

<210> 173

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK5

<400> 173

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn

1	5	10	15
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly			
20	25	30	
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala			
35	40	45	
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro			
50	55	60	
Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly			
65	70	75	80
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp			
85	90	95	
Leu Leu Ser Pro His Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro			
100	105	110	
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys			
115	120	125	
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu			
130	135	140	
Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp			
145	150	155	160
Gly Val Asn Tyr Ala Thr Gly Asn Ile Pro Gly Cys Ser Phe Ser Ile			
165	170	175	
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Thr Pro Val Ser Ala			
180	185	190	
<210> 174			
<211> 191			
<212> PRT			
<213> Homo sapiens			
<220>			
<223> Individual Isolate: HK4			
<400> 174			
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn			
1	5	10	15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Met Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Val Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala  
180 185 190

<210> 175

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: P8

<400> 175

Met Ser Thr Thr Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ser  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly  
65 70 75 80

His Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Leu  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Val Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala  
180 185 190

<210> 176

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T3

<400> 176

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala

35

40

45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asp Glu Gly Met Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Thr Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Ile Pro Ala Ser Ala  
180 185 190

<210> 177

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T4

<400> 177

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro  
100 105 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Ser Leu Ala Asp Leu Met Gly Tyr Val Pro Val Val Gly Gly Pro Leu  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Ile Pro Val Ser Ala  
180 185 190

<210> 178

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: US10

<400> 178

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Asp Arg Arg Pro Thr Gly Lys Ser Trp Gly Lys Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro  
100 105 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Leu  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Ile Pro Val Ser Ala  
180 185 190

<210> 179

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T9

<400> 179

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Ile Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Thr  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly

65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Ser Asp Pro  
100 105 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Leu  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Thr Pro Ala Ser Ala  
180 185 190

<210> 180

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T2

<400> 180

Met Ser Thr Ile Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro  
100 105 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Leu  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Ile Pro Val Ser Ala  
180 185 190

<210> 181

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: T8

<400> 181

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Thr Trp Gly Pro Thr Asp Pro  
100 105 110

Arg His Arg Ser Arg Asn Leu Gly Arg Val Ile Asp Thr Ile Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Phe Thr Val Pro Val Ser Ala  
180 185 190

<210> 182

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: US1

<400> 182

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Thr Trp Gly Pro Thr Asp Pro

100 105 110

Arg His Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Ile Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ala Thr Val Pro Val Ser Ala  
180 185 190

<210> 183

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK11

<400> 183

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Thr  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Pro Trp Gly Lys Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser His Pro Asn Trp Gly Pro Thr Asp Pro  
100 105 110

Arg His Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Ile Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Cys Thr Val Pro Val Ser Ala  
180 185 190

<210> 184

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SW3

<400> 184

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser His Pro Asn Trp Gly Pro Thr Asp Pro  
100 105 110

Arg His Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Ile Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Phe Thr Val Pro Val Ser Ala  
180 185 190

<210> 185

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK8

<400> 185

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Ser Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Asp Arg Arg Ser Thr Gly Lys Ser Trp Gly Lys Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Thr Trp Gly Pro Thr Asp Pro  
100 105 110

Arg His Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Ile Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val

130	135	140
Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp		
145	150	155
160		
Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile		
165	170	175
Phe Leu Leu Ala Leu Leu Ser Cys Cys Thr Val Pro Val Ser Ala		
180	185	190
195		
<210> 186		
<211> 191		
<212> PRT		
<213> Homo sapiens		
<220>		
<223> Individual Isolate: S83		
<400> 186		
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn		
1	5	10
15		
Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly		
20	25	30
35		
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala		
35	40	45
45		
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro		
50	55	60
60		
Ile Pro Lys Asp Arg Arg Thr Thr Gly Lys Ser Trp Gly Arg Pro Gly		
65	70	75
80		
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp		
85	90	95
95		
Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro		
100	105	110
110		
Arg His Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys		
115	120	125
125		
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val		
130	135	140
140		

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Ser Val Pro Val Ser Ala  
180 185 190

<210> 187

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: HK10

<400> 187

Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp  
145 150 155 160

Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Ile His Pro Ala Ala Ser  
180 185 190

<210> 188

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S52

<400> 188

Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp  
145 150 155 160

Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile

165

170

175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Val His Pro Ala Ala Ser  
180 185 190

<210> 189

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: S2

<400> 189

Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile  
1 5 10 15

Arg Arg Pro Gln Asp Ile Lys Phe Pro Gly Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp  
145 150 155 160

Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Ile His Pro Ala Ala Ser  
180 185 190

<210> 190  
<211> 191  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: DK12

<400> 190  
Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp  
145 150 155 160

Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Ile His Pro Ala Ala Ser  
180 185 190

<210> 191  
<211> 191  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: Z4

<400> 191  
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15  
  
Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly  
20 25 30  
  
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45  
  
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60  
  
Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Ser Trp Ala Gln Pro Gly  
65 70 75 80  
  
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95  
  
Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro  
100 105 110  
  
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125  
  
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Ile Val Gly Ala Pro Val  
130 135 140  
  
Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Val Glu Asp  
145 150 155 160  
  
Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175  
  
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala  
180 185 190

<210> 192  
<211> 191  
<212> PRT  
<213> Homo sapiens

<220>  
<223> Individual Isolate: Z8

<400> 192  
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Val Glu Asp  
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala  
180 185 190

<210> 193  
<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: Z1

<400> 193

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Ala Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Val Glu Asp  
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Thr Pro Ala Ser Ala  
180 185 190

<210> 194

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: Z5

<400> 194

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Gln Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Gln Asn Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp  
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Thr Thr Pro Ala Ser Ala  
180 185 190

<210> 195

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: Z6

<400> 195

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Val Glu Asp  
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Thr Ser Ala  
180 185 190

<210> 196

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: Z7

<400> 196

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Thr  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp  
145 150 155 160

Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala  
180 185 190

<210> 197

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: DK13

<400> 197

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn

1	5	10	15
Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly			
20	25	30	
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala			
35	40	45	
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro			
50	55	60	
Ile Pro Lys Ala Arg Gln Leu Glu Gly Arg Ser Trp Ala Gln Pro Gly			
65	70	75	80
Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp			
85	90	95	
Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro			
100	105	110	
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys			
115	120	125	
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Val			
130	135	140	
Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Leu Leu Glu Asp			
145	150	155	160
Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile			
165	170	175	
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala			
180	185	190	
<210> 198			
<211> 191			
<212> PRT			
<213> Homo sapiens			
<220>			
<223> Individual Isolate: SA4			
<400> 198			
Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn			
1	5	10	15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala  
180 185 190

<210> 199

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA5

<400> 199

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala  
180 185 190

<210> 200

<211> 191

<212> PRT

<213> Homo sapiens

<220>

<223> Individual Isolate: SA7

<400> 200

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala

35	40	45
Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro		
50	55	60
Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly		
65	70	75
Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp		
85	90	95
Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro		
100	105	110
Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys		
115	120	125
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val		
130	135	140
Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp		
145	150	155
Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile		
165	170	175
Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala		
180	185	190
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Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn		
1	5	10
15		
Leu Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly		
20	25	30
Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala		
35	40	45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Ile Ile Pro Ala Ser Ala  
180 185 190

<210> 202

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<220>

<223> Individual Isolate: SA3

<400> 202

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Glu Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala  
180 185 190

<210> 203

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<220>

<223> Individual Isolate: SA13

<400> 203

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly

65 70 75 80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Thr Ser Ala  
180 185 190

<210> 204

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<220>

<223> Individual Isolate: SA6

<400> 204

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Gln Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Met Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Gln Ser Ala Gly Arg Ser Trp Gly Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Lys Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Val Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala  
180 185 190

<210> 205

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<220>

<223> Individual Isolate: SA11

<400> 205

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Gln Pro Thr Gly Arg Ser Trp Gly Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Phe Tyr Ala Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Asn Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Gly Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Ile Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Thr Ala  
180 185 190

<210> 206

<211> 191

<212> PRT

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<220>

<223> Individual Isolate: HK2

<400> 206

Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Thr Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Gln Pro Gln Gly Arg His Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro His Trp Gly Pro Asn Asp Pro

100	105	110
Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys		
115	120	125
Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Val Val Gly Ala Pro Leu		
130	135	140
Gly Gly Val Ala Ala Ala Leu Ala His Gly Val Arg Ala Ile Glu Asp		
145	150	155
Gly Ile Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile		
165	170	175
Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Thr Pro Ala Ser Ala		
180	185	190

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<400> 208  
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<400> 210

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40

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<212> DNA

<213> Homo sapiens

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40

<210> 212

<211> 40

<212> DNA

<213> Homo sapiens

<400> 212

agttcaaggc cgtggaattc atgtgccaac tgccgtttgt

40

<210> 213

<211> 42

<212> DNA

<213> Homo sapiens

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42

<210> 214

<211> 31

<212> DNA

<213> Homo sapiens

<400> 214

rcargccrtc ttggayatga tcgctggwgc y

31

<210> 215

<211> 42

<212> DNA

<213> Homo sapiens

<400> 215

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rcaagctr	tc rtggayrtgg trrcrgg	rgc c			31
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ttcg	gackc acatygacat ggttgtatg tccgccacgc				40
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gatgcgcgtt	cccgagg	tca tcwtagacat c	rttgtcg	gr gcd	43
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aatggcaccy	tgc	rcgtgctg gatacaagtr acaccta	atg tggctgtgaa acac		54
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<212> DNA  
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<400> 223  
ttggtgcgca tcccggaagt catcttggat attgttacag gaggt 45

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<211> 40  
<212> DNA  
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<400> 224  
agtcaaggtagt gtcggagcaa ccacccgttc gatacgcagt 40

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<211> 46  
<212> DNA  
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<400> 225  
agccttcacg ttcagacckc gtcgccatca aacrgtccag acctgt 46

<210> 226  
<211> 75  
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<213> Homo sapiens

<400> 226

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<210> 227

<211> 39

<212> DNA

<213> Homo sapiens

<400> 227

acgcccggta cgcctacagt ggctgtcgca caccgggc 39

<210> 228

<211> 42

<212> DNA

<213> Homo sapiens

<400> 228

atgagggtcc ccacagcctt tctcgacatg gttgccggag gc 42

<210> 229

<211> 40

<212> DNA

<213> Homo sapiens

<400> 229

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<212> DNA

<213> Homo sapiens

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<210> 231

<211> 54

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<400> 231  
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<400> 232  
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<210> 233  
<211> 54  
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<400> 233  
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<400> 235  
tcagccccga vyytcggagc ggtcacggct cctttcgga ggg 43

<210> 236  
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<400> 236  
tgytacggat yccccargtg gtcathgaca tcatwgccgg ggsc 44

<210> 237  
<211> 40  
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<400> 237  
cataccaaat gcttccacgc ccgcaacggg attccgcagg

40

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<400> 238  
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37

<210> 239  
<211> 52  
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<213> Homo sapiens

<400> 239  
atctagcatc ttgagggtagt ac ctgagatttg tgcgagtgtg atatttggtg gc

52

<210> 240  
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<222> (22)..  
<223> "Ala" or "Thr"

<220>  
<221> SITE  
<222> (24)..  
<223> "Val" or "Ile"

<220>  
<221> SITE  
<222> (26)  
<223> "Val" or "Met"

<400> 240

Trp Ile Gln Val Thr Pro Asn Val Ala Val Lys His Arg Gly Ala Leu  
1 5 10 15

Thr His Asn Leu Arg Xaa His Xaa Asp Xaa Ile Val Met Ala Ala Thr  
20 25 30

Val

<210> 241

<211> 33

<212> PRT

<213> Homo sapiens

<400> 241

Trp Val Pro Val Ala Pro Asn Leu Ala Ile Ser Gln Pro Gly Ala Leu  
1 5 10 15

Thr Lys Gly Leu Arg Ala His Ile Asp Ile Ile Val Met Ser Ala Thr  
20 25 30

Val

<210> 242

<211> 33

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> "Ser" or "Thr"

<220>

<221> SITE

<222> (11)

<223> "Arg" or "Gln"

<220>

<221> SITE

<222> (12)

<223> "Arg" or "Gln"

<400> 242

Trp Ile Pro Val Xaa Pro Asn Val Ala Val Xaa Xaa Pro Gly Ala Leu  
1 5 10 15

Thr Gln Gly Leu Arg Thr His Ile Asp Met Val Val Met Ser Ala Thr  
20 25 30

Leu

<210> 243  
<211> 33  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> "Pro" or "Ser"

<220>  
<221> SITE  
<222> (33)  
<223> "Leu" or "Met"

<400> 243  
Trp Thr Xaa Val Thr Pro Thr Val Ala Val Arg Tyr Val Gly Ala Thr  
1 5 10 15

Thr Ala Ser Ile Arg Ser His Val Asp Leu Leu Val Gly Ala Ala Thr  
20 25 30

Xaa

<210> 244  
<211> 33  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> "Thr" or "Ala"

<220>  
<221> SITE

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<222> (13)
<223> "Gly" or "Ala" or "Ser" or "Val" or "Thr"

<220>
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<222> (14)
<223> "Ser" or "Thr" or "Asn"

<220>
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<223> "Val" or "Ile"

<220>
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<223> "Pro" or "Ser"

<220>
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<220>
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<222> (22)
<223> "Arg" or "His"

<220>
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<222> (32)
<223> "Ala" or "Val" or "Thr"

<400> 244
Trp Val Ala Leu Xaa Pro Thr Leu Ala Ala Arg Asn Xaa Xaa Xaa
1 5 10 15

Thr Xaa Xaa Ile Arg Xaa His Val Asp Leu Leu Val Gly Ala Ala Xaa
20 25 30

Phe

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<210> 245  
<211> 33  
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<213> Homo sapiens

<220>  
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<223> "Ala" or "Pro"

<220>  
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<223> "Thr" or "Ala"

<220>  
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<220>  
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<220>  
<221> SITE  
<222> (23)  
<223> "His" or "Tyr"

<400> 245  
Trp Val Xaa Xaa Xaa Pro Thr Val Ala Thr Arg Asp Gly Lys Leu Pro  
1 5 10 15

Xaa Xaa Gln Leu Arg Arg Xaa Ile Asp Leu Leu Val Gly Ser Ala Thr  
20 25 30

Leu

<210> 246

<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 246  
Trp Thr Pro Val Thr Pro Thr Val Ala Val Ala His Pro Gly Ala Pro  
1 5 10 15  
  
Leu Glu Ser Phe Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr  
20 25 30

Leu

<210> 247  
<211> 33  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> "Val" or "Ala"

<220>  
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<223> "Ser" or "Pro"

<220>  
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<223> "Asp" or "Glu"

<220>  
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<222> (20)  
<223> "Leu" or "Ile"

<400> 247  
Trp Val Ala Leu Thr Pro Thr Val Ala Xaa Xaa Tyr Ile Gly Ala Pro  
1 5 10 15

Leu Xaa Ser Xaa Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr  
20 25 30

Val

<210> 248  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 248  
Trp Val Ser Leu Thr Pro Thr Val Ala Ala Gln His Leu Asn Ala Pro  
1 5 10 15

Leu Glu Ser Leu Arg Arg His Val Asp Leu Met Val Gly Gly Ala Thr  
20 25 30

Leu

<210> 249  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 249  
Trp Val Pro Leu Thr Pro Thr Val Ala Ala Pro Tyr Pro Asn Ala Pro  
1 5 10 15

Leu Glu Ser Met Arg Arg His Val Asp Leu Met Val Gly Ala Ala Thr  
20 25 30

Met

<210> 250  
<211> 33  
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<220>  
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<223> "Gln" or "His"

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<223> "Asn" or "Ser" or "Thr"

<220>

<221> SITE

<222> (13)

<223> "Leu" or "Phe"

<220>

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<222> (23)

<223> "Ala" or "Val"

<400> 250

Trp Val Xaa Ile Thr Pro Thr Leu Ser Ala Pro Xaa Xaa Gly Ala Val  
1 5 10 15

Thr Ala Pro Leu Arg Arg Xaa Val Asp Tyr Leu Ala Gly Gly Ala Ala  
20 25 30

Leu

<210> 251

<211> 33

<212> PRT

<213> Homo sapiens

<400> 251

Trp His Ala Val Thr Pro Thr Leu Ala Ile Pro Asn Ala Ser Thr Pro  
1 5 10 15

Ala Thr Gly Phe Arg Arg His Val Asp Leu Leu Ala Gly Ala Ala Val  
20 25 30

Val

<210> 252

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> "Val" or "Ala"

<220>  
<221> SITE  
<222> (18)  
<223> "Glu" or "Gln"

<400> 252  
Thr Leu Thr Met Ile Leu Ala Tyr Ala Ala Arg Val Pro Glu Leu Xaa  
1 5 10 15  
  
Leu Xaa Val Val Phe Gly Gly  
20

<210> 253  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 253  
Thr Thr Thr Met Leu Leu Ala Tyr Leu Val Arg Ile Pro Glu Val Ile  
1 5 10 15  
  
Leu Asp Ile Val Thr Gly Gly  
20

<210> 254  
<211> 23  
<212> PRT  
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<220>  
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<222> (2)  
<223> "Ala" or "Thr"

<220>  
<221> SITE  
<222> (4)  
<223> "Met" or "Leu"

<220>  
<221> SITE  
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<220>

<221> SITE

<222> (17)

<223> "Ile" or "Leu"

<220>

<221> SITE

<222> (20)

<223> "Ile" or "Val"

<220>

<221> SITE

<222> (21)

<223> "Ser" or "Gly"

<400> 254

Thr Xaa Thr Xaa Ile Leu Ala Tyr Xaa Met Arg Val Pro Glu Val Ile  
1 5 10 15

Xaa Asp Ile Xaa Xaa Gly Ala  
20

<210> 255

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> "Val" or "Ile"

<220>

<221> SITE

<222> (16)

<223> "Leu" or "Val"

<220>

<221> SITE

<222> (20)

<223> "Ile" or "Leu"

<400> 255

Ala Val Gly Met Val Val Ala His Xaa Leu Arg Leu Pro Gln Thr Xaa  
1 5 10 15

Phe Asp Ile Xaa Ala Gly Ala  
20

<210> 256  
<211> 23  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> "Ala" or "Thr"

<220>  
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<223> "Val" or "Leu"

<220>  
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<220>  
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<223> "Val" or "Leu" or "Met"

<220>  
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<222> (19)  
<223> "Met" or "Val"

<220>  
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<222> (21)  
<223> "Ala" or "Thr"

<400> 256  
Thr Xaa Ala Leu Val Xaa Ser Gln Leu Leu Arg Xaa Pro Gln Ala Xaa  
1 5 10 15

Xaa Asp Xaa Val Xaa Gly Ala  
20

<210> 257  
<211> 23  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> "Val" or "Ile" or "Met"

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<222> (12)  
<223> "Ile" or "Val"

<220>  
<221> SITE  
<222> (16)  
<223> "Ile" or "Val"

<400> 257  
Thr Xaa Ala Leu Val Xaa Ala Gln Leu Leu Arg Xaa Pro Gln Ala Xaa  
1 5 10 15  
  
Leu Asp Met Ile Ala Gly Ala  
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<210> 258  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 258  
Thr Thr Thr Leu Leu Ala Gln Ile Met Arg Val Pro Thr Ala Phe  
1 5 10 15  
  
Leu Asp Met Val Ala Gly Gly  
20

<210> 259  
<211> 23  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (5)  
<223> "Leu" or "Val"

<220>  
<221> SITE  
<222> (21)  
<223> "Thr" or "Ala"

<400> 259  
Thr Thr Thr Leu Xaa Leu Ala Gln Val Met Arg Ile Pro Ser Thr Leu  
1 5 10 15  
  
Val Asp Leu Leu Xaa Gly Gly  
20

<210> 260  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 260  
Thr Ala Thr Leu Val Leu Ala Gln Leu Met Arg Ile Pro Gly Ala Met  
1 5 10 15  
  
Val Asp Leu Leu Ala Gly Gly  
20

<210> 261  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 261  
Thr Ser Ala Leu Ile Met Ala Gln Ile Leu Arg Ile Pro Ser Ile Leu  
1 5 10 15  
  
Gly Asp Leu Leu Thr Gly Gly  
20

<210> 262  
<211> 23  
<212> PRT  
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<220>  
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<223> "Val" or "Leu"

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<222> (9)  
<223> "Leu" or "Met" or "Val"

<220>  
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<222> (23)  
<223> "Gly" or "Ala"

<400> 262  
Xaa Thr Ala Leu Xaa Met Ala Gln Xaa Leu Arg Ile Pro Gln Val Val  
1 5 10 15  
  
Ile Asp Ile Ile Ala Gly Xaa  
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<210> 263  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 263  
Thr Thr Thr Leu Val Leu Ser Ser Ile Leu Arg Val Pro Glu Ile Cys  
1 5 10 15  
  
Ala Ser Val Ile Phe Gly Gly  
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<210> 264

<211> 191  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (49)  
<223> "Thr" or "Pro"

<400> 264

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Xaa Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Pro Glu Gly Arg Thr Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Leu  
130 135 140

Gly Gly Ala Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Val Pro Ala Ser Ala  
180 185 190

<210> 265

<211> 191  
<212> PRT  
<213> Homo sapiens

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<222> (16)  
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<223> "Arg" or "His" or "Gln"

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<223> "Ala" or "Thr"

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<223> "Ala" or "Gly"

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<223> "Asn" or "Asp"

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<223> "Leu" or "Met"

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<222> (101)  
<223> "Arg" or "His"

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<223> "Ser" or "Asn"

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<222> (110)  
<223> "Thr" or "Asn"

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<222> (142)  
<223> "Gly" or "Ala"

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<223> "Val" or "Ala"

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<222> (158)  
<223> "Val" or "Leu"

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<221> SITE  
<222> (169)  
<223> "Leu" or "Ile"

<220>  
<221> SITE  
<222> (173)  
<223> "Ser" or "Pro"

<220>  
<221> SITE  
<222> (187)  
<223> "Ile" or "Val" or "Thr"

<220>  
<221> SITE

<222> (189)

<223> "Ala" or "Val"

<400> 265

Met Ser Thr Xaa Pro Lys Pro Gln Arg Xaa Thr Lys Arg Asn Thr Xaa  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Xaa Pro Glu Gly Arg Xaa Trp Ala Gln Pro Gly  
65 70 75 80

Xaa Pro Trp Pro Leu Tyr Xaa Xaa Glu Gly Xaa Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Xaa Gly Ser Arg Pro Xaa Trp Gly Pro Xaa Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Xaa Pro Leu  
130 135 140

Gly Gly Xaa Ala Arg Ala Leu Ala His Gly Val Arg Val Xaa Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Xaa Pro Gly Cys Xaa Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Xaa Pro Xaa Ser Ala  
180 185 190

<210> 266

<211> 191

<212> PRT

<213> Homo sapiens

<220>

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<223> "Asn" or "Ser"

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<223> "Thr" or "Pro"

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<223> "Arg" or "Gln" or "His"

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<223> "Thr" or "Ala"

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<223> "Tyr" or "His"

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<223> "Gly" or "Ala"

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<223> "Asn" or "Asp"

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<222> (91)
<223> "Met" or "Leu" or "Cys"
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<223> "Thr" or "Asn"

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<223> "Ala" or "Gly"

<220>  
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<222> (147)  
<223> "Val" or "Ala"

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<222> (158)  
<223> "Leu" or "Val"

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<223> "Ile" or "Leu"

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<222> (173)  
<223> "Ser" or "Pro"

<220>  
<221> SITE  
<222> (187)  
<223> "Thr" or "Ile" or "Val"

<220>  
<221> SITE  
<222> (189)

<223> "Val" or "Ala"

<400> 266

Met Ser Thr Xaa Pro Lys Pro Gln Arg Xaa Thr Lys Arg Asn Thr Xaa  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Xaa Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Xaa Pro Glu Gly Arg Xaa Trp Ala Gln Pro Gly  
65 70 75 80

Xaa Pro Trp Pro Leu Tyr Xaa Xaa Glu Gly Xaa Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Xaa Gly Ser Arg Pro Xaa Trp Gly Pro Xaa Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Xaa Pro Leu  
130 135 140

Gly Gly Xaa Ala Arg Ala Leu Ala His Gly Val Arg Val Xaa Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Xaa Pro Gly Cys Xaa Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Leu Thr Xaa Pro Xaa Ser Ala  
180 185 190

<210> 267

<211> 191

<212> PRT

<213> Homo sapiens

<220>

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<222> (4)

<223> "Asn" or "Ile"

<220>

<221> SITE

<222> (12)

<223> "Ile" or "Lys"

<220>

<221> SITE

<222> (48)

<223> "Thr" or "Ala"

<220>

<221> SITE

<222> (71)

<223> "Ser" or "Pro"

<220>

<221> SITE

<222> (110)

<223> "Ser" or "Thr" or "Asn"

<220>

<221> SITE

<222> (129)

<223> "Gly" or "Ser"

<220>

<221> SITE

<222> (130)

<223> "Phe" or "Leu"

<220>

<221> SITE

<222> (137)

<223> "Ile" or "Val"

<220>

<221> SITE

<222> (142)

<223> "Ala" or "Gly"

<220>

<221> SITE

<222> (187)

<223> "Thr" or "Ile"

<220>

<221> SITE  
<222> (189)  
<223> "Ala" or "Val"

<400> 267

Met Ser Thr Xaa Pro Lys Pro Gln Arg Lys Thr Xaa Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Xaa  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Asp Arg Arg Xaa Thr Gly Lys Ser Trp Gly Lys Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Xaa Asp Pro  
100 105 110

Arg His Arg Ser Arg Asn Val Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Xaa Xaa Ala Asp Leu Met Gly Tyr Xaa Pro Val Val Gly Xaa Pro Leu  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Ile Thr Xaa Pro Xaa Ser Ala  
180 185 190

<210> 268  
<211> 191  
<212> PRT  
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<220>

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<222> (48)

<223> "Thr" or "Ala"

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<221> SITE

<222> (52)

<223> "Thr" or "Ser"

<220>

<221> SITE

<222> (75)

<223> "Pro" or "Ser"

<220>

<221> SITE

<222> (104)

<223> "His" or "Arg"

<220>

<221> SITE

<222> (106)

<223> "Asn" or "Thr"

<220>

<221> SITE

<222> (115)

<223> "Lys" or "Arg"

<220>

<221> SITE

<222> (121)

<223> "Lys" or "Arg"

<220>

<221> SITE

<222> (185)

<223> "Cys" or "Phe" or "Ala"

<400> 268

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn

1

5

10

15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly

20

25

30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Xaa

35

40

45

Thr	Arg	Lys	Xaa	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
50				55					60						
Ile	Pro	Lys	Asp	Arg	Arg	Ser	Thr	Gly	Lys	Xaa	Trp	Gly	Lys	Pro	Gly
65				70				75					80		
Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Cys	Gly	Trp	Ala	Gly	Trp
					85				90				95		
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Xaa	Pro	Xaa	Trp	Gly	Pro	Thr	Asp	Pro
						100			105				110		
Arg	His	Xaa	Ser	Arg	Asn	Leu	Gly	Xaa	Val	Ile	Asp	Thr	Ile	Thr	Cys
						115			120			125			
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Val	Val	Gly	Ala	Pro	Val
					130			135			140				
Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp
					145			150			155			160	
Gly	Ile	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
					165				170				175		
Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Xaa	Thr	Val	Pro	Val	Ser	Ala	
					180				185				190		

<210> 269  
 <211> 191  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <223> "Lys" or "Ile"

<220>  
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 <222> (48)  
 <223> "Thr" or "Ala"

<220>  
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<222> (52)  
<223> "Thr" or "Ser"

<220>  
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<222> (71)  
<223> "Ser" "Thr" or "Pro"

<220>  
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<222> (75)  
<223> "Pro" or "Ser"

<220>  
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<222> (78)  
<223> "Lys" or "Arg"

<220>  
<221> SITE  
<222> (91)  
<223> "Cys" or "Leu"

<220>  
<221> SITE  
<222> (104)  
<223> "His" or "Arg"

<220>  
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<222> (106)  
<223> "Asn" or "Thr" or "Ser"

<220>  
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<223> "Leu" or "Val"

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<223> "Lys" or "Arg"

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<220>  
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<223> "Ile" or "Val"

<220>  
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<222> (142)  
<223> "Ala" or "Gly"

<220>  
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<222> (144)  
<223> "Val" or "Leu"

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<222> (162)  
<223> "Ile" or "Val"

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<222> (185)  
<223> "Cys" or "Phe" or "Ala" or "Ile"

<220>  
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<222> (186)  
<223> "Thr" or "Ser"

<220>  
<221> SITE  
<222> (187)  
<223> "Val" or "Ile" or "Thr"

<220>  
<221> SITE  
<222> (189)  
<223> "Val" or "Ala"

<400> 269  
Met Ser Thr Xaa Pro Lys Pro Gln Arg Lys Thr Xaa Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Xaa  
35 40 45

Thr Arg Lys Xaa Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Asp Arg Arg Xaa Thr Gly Lys Xaa Trp Gly Xaa Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Xaa Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Xaa Pro Xaa Trp Gly Pro Xaa Asp Pro  
100 105 110

Arg His Xaa Ser Arg Asn Xaa Gly Xaa Val Ile Asp Thr Xaa Thr Cys  
115 120 125

Xaa Xaa Ala Asp Leu Met Gly Tyr Xaa Pro Val Val Gly Xaa Pro Xaa  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Val Leu Glu Asp  
145 150 155 160

Gly Xaa Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Leu Ser Cys Xaa Xaa Xaa Pro Xaa Ser Ala  
180 185 190

<210> 270  
<211> 191  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (22)  
<223> "Ile" or "Val"

<220>  
<221> SITE  
<222> (186)  
<223> "Ile" or "Val"

<400> 270  
Met Ser Thr Leu Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Ile  
1 5 10 15

Arg Arg Pro Gln Asp Xaa Lys Phe Pro Gly Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Val Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Arg Ser Glu Gly Arg Ser Trp Ala Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Cys Gly Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Ala Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Ala Leu Glu Asp  
145 150 155 160

Gly Ile Asn Phe Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
165 170 175

Phe Leu Leu Ala Leu Phe Ser Cys Leu Xaa His Pro Ala Ala Ser  
180 185 190

<210> 271  
<211> 191  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (48)  
<223> "Ala" or "Thr"

<220>  
<221> SITE  
<222> (49)  
<223> "Thr" or "Ala"

<220>  
<221> SITE  
<222> (67)  
<223> "Gln" or "Lys"

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<221> SITE  
<222> (70)  
<223> "Arg" or "Gln"

<220>  
<221> SITE  
<222> (71)  
<223> "Ser" or "Pro" or "Leu"

<220>  
<221> SITE  
<222> (109)  
<223> "Gln" or "Pro"

<220>  
<221> SITE  
<222> (139)

<223> "Leu" or "Ile" or "Val"

<220>

<221> SITE

<222> (157)

<223> "Ala" or "Leu"

<220>

<221> SITE

<222> (158)

<223> "Leu" or "Val"

<220>

<221> SITE

<222> (162)

<223> "Ile" or "Val"

<220>

<221> SITE

<222> (182)

<223> "Phe" or "Leu"

<220>

<221> SITE

<222> (187)

<223> "Thr" or "Val"

<220>

<221> SITE

<222> (189)

<223> "Ala" or "Thr"

<400> 271

Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn  
1 5 10 15

Arg Arg Pro Met Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Xaa  
35 40 45

Xaa Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Xaa Ala Arg Xaa Xaa Glu Gly Arg Ser Trp Ala Gln Pro Gly  
65 70 75 80

Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Cys	Gly	Trp	Ala	Gly	Trp				
														85	90	95			
Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Xaa	Asn	Asp	Pro				
																100	105	110	
Arg	Arg	Arg	Ser	Arg	Asn	Leu	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys				
																115	120	125	
Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Xaa	Val	Gly	Ala	Pro	Val				
																130	135	140	
Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Xaa	Xaa	Glu	Asp				
																145	150	155	160
Gly	Xaa	Asn	Tyr	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile				
																165	170	175	
Phe	Leu	Leu	Ala	Leu	Xaa	Ser	Cys	Leu	Thr	Xaa	Pro	Xaa	Ser	Ala					
																180	185	190	

<210> 272  
 <211> 191  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (12)  
 <223> "Lys" or "Gln"

<220>  
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 <222> (17)  
 <223> "Arg" or "Leu"

<220>  
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 <222> (44)  
 <223> "Leu" or "Met"

<220>  
 <221> SITE  
 <222> (71)  
 <223> "Pro" or "Ser"

<220>

<221> SITE  
<222> (72)  
<223> "Thr" or "Ala"

<220>  
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Xaa Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Xaa Gly Val Arg Ala  
35 40 45

Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Lys Ala Arg Gln Xaa Xaa Gly Arg Ser Trp Gly Gln Pro Gly  
65 70 75 80

Tyr Pro Trp Pro Xaa Tyr Ala Asn Glu Gly Leu Xaa Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Arg Gly Ser Arg Pro Xaa Trp Gly Pro Asn Asp Pro  
100 105 110

Arg Arg Xaa Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys  
115 120 125

Gly Phe Ala Asp Leu Met Gly Tyr Ile Pro Leu Val Gly Pro Val  
130 135 140

Gly Gly Val Ala Arg Ala Leu Ala His Gly Val Arg Xaa Leu Glu Asp  
145 150 155 160

Gly Val Asn Tyr Ala Thr Gly Asn Leu Pro Gly Cys Ser Phe Ser Ile  
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Phe Xaa Leu Ala Leu Leu Ser Cys Leu Xaa Xaa Pro Xaa Xaa Ala  
180 185 190

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Xaa Arg Pro Xaa Asp Xaa Lys Phe Pro Gly Gly Gln Ile Val Gly  
20 25 30

Gly Val Tyr Xaa Leu Pro Arg Arg Gly Pro Arg Xaa Gly Val Arg Xaa  
35 40 45

Xaa Arg Lys Xaa Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro  
50 55 60

Ile Pro Xaa Xaa Arg Xaa Xaa Xaa Gly Xaa Xaa Trp Xaa Xaa Pro Gly  
65 70 75 80

Xaa Pro Trp Pro Xaa Tyr Xaa Xaa Glu Gly Xaa Xaa Trp Ala Gly Trp  
85 90 95

Leu Leu Ser Pro Xaa Gly Ser Xaa Pro Xaa Trp Gly Xaa Xaa Asp Pro  
100 105 110

Arg Xaa Xaa Ser Arg Asn Xaa Gly Xaa Val Ile Asp Thr Xaa Thr Cys  
115 120 125

Xaa Xaa Ala Asp Leu Met Gly Tyr Xaa Pro Xaa Val Gly Xaa Pro Xaa  
130 135 140

Gly Gly Xaa Ala Xaa Ala Leu Ala His Gly Val Arg Xaa Xaa Glu Asp  
145 150 155 160

Gly Xaa Asn Xaa Ala Thr Gly Asn Xaa Pro Gly Cys Xaa Phe Ser Ile  
165 170 175

Phe Xaa Leu Ala Leu Xaa Ser Cys Xaa Xaa Xaa Pro Xaa Xaa Xaa  
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20 25 30															
Gly Val Tyr Xaa Leu Pro Arg Arg Gly Pro Arg Xaa Gly Val Arg Xaa															
35 40 45															
Xaa Arg Lys Xaa Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro															
50 55 60															
Ile Pro Xaa Xaa Arg Xaa Xaa Xaa Gly Xaa Xaa Trp Xaa Xaa Pro Gly															
65 70 75 80															
Xaa Pro Trp Pro Xaa Tyr Xaa Xaa Glu Gly Xaa Xaa Trp Ala Gly Trp															
85 90 95															
Leu Leu Ser Pro Xaa Gly Ser Xaa Pro Xaa Trp Gly Xaa Xaa Asp Pro															
100 105 110															
Arg Xaa Xaa Ser Arg Asn Xaa Gly Xaa Val Ile Asp Thr Xaa Thr Cys															
115 120 125															
Xaa Xaa Ala Asp Leu Met Gly Tyr Xaa Pro Xaa Val Gly Xaa Pro Xaa															
130 135 140															
Gly Gly Xaa Ala Xaa Ala Leu Ala His Gly Val Arg Xaa Xaa Glu Asp															
145 150 155 160															
Gly Xaa Asn Xaa Ala Thr Gly Asn Xaa Pro Gly Cys Xaa Phe Ser Ile															
165 170 175															
Phe Xaa Leu Ala Leu Xaa Ser Cys Xaa Xaa Xaa Pro Xaa Xaa Xaa															
180 185 190															